

BEST AVAILABLE COPY

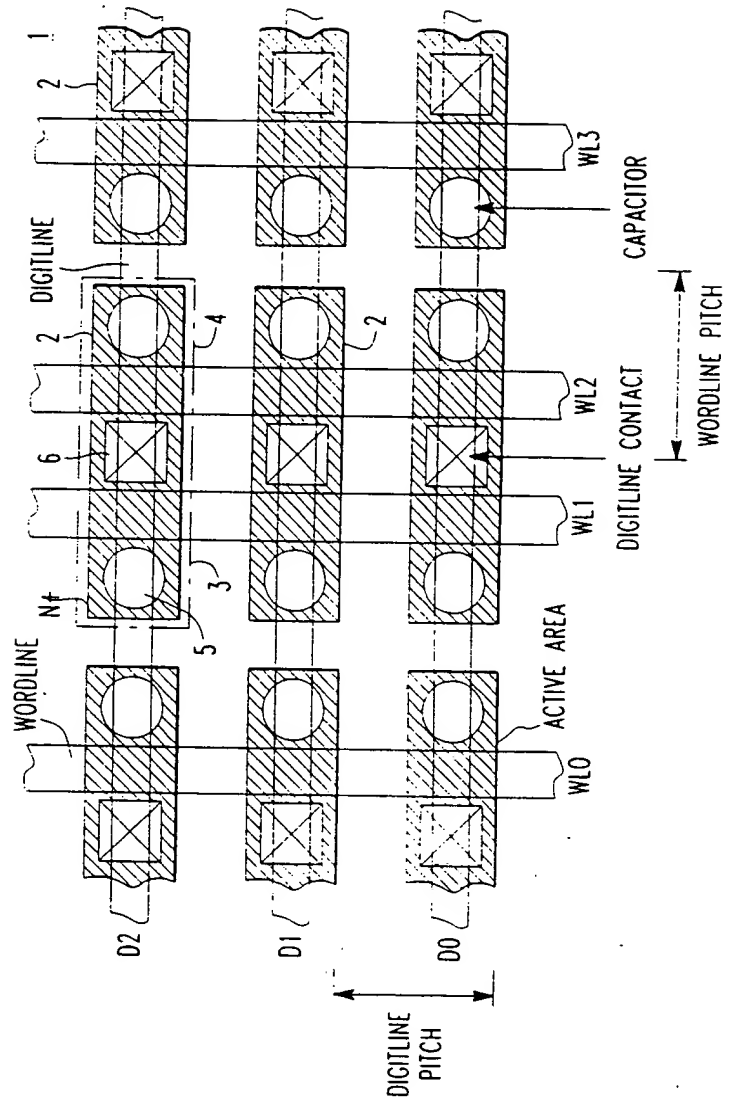


FIG. 1

2,367

FIG. 2

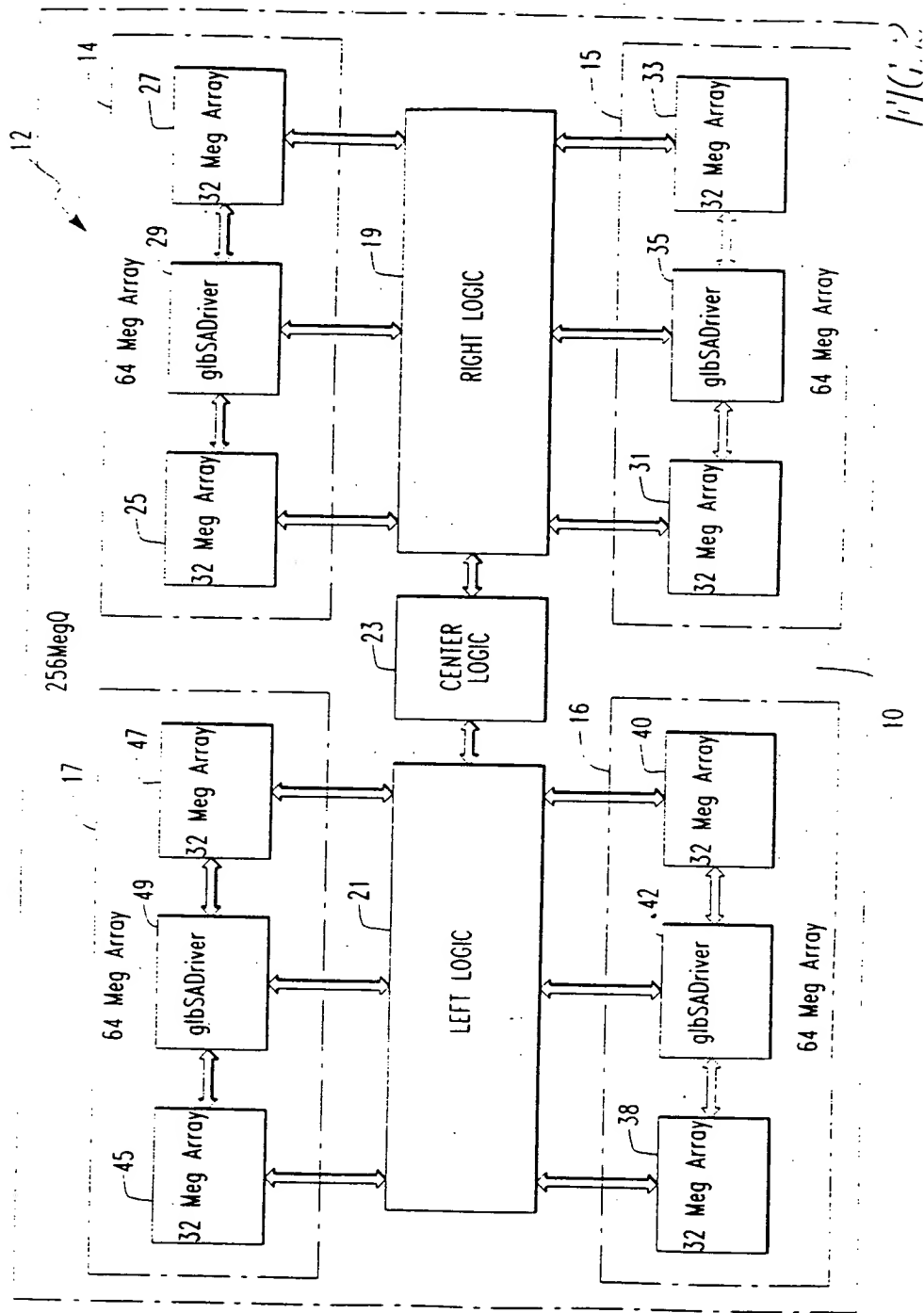


FIG. 3A

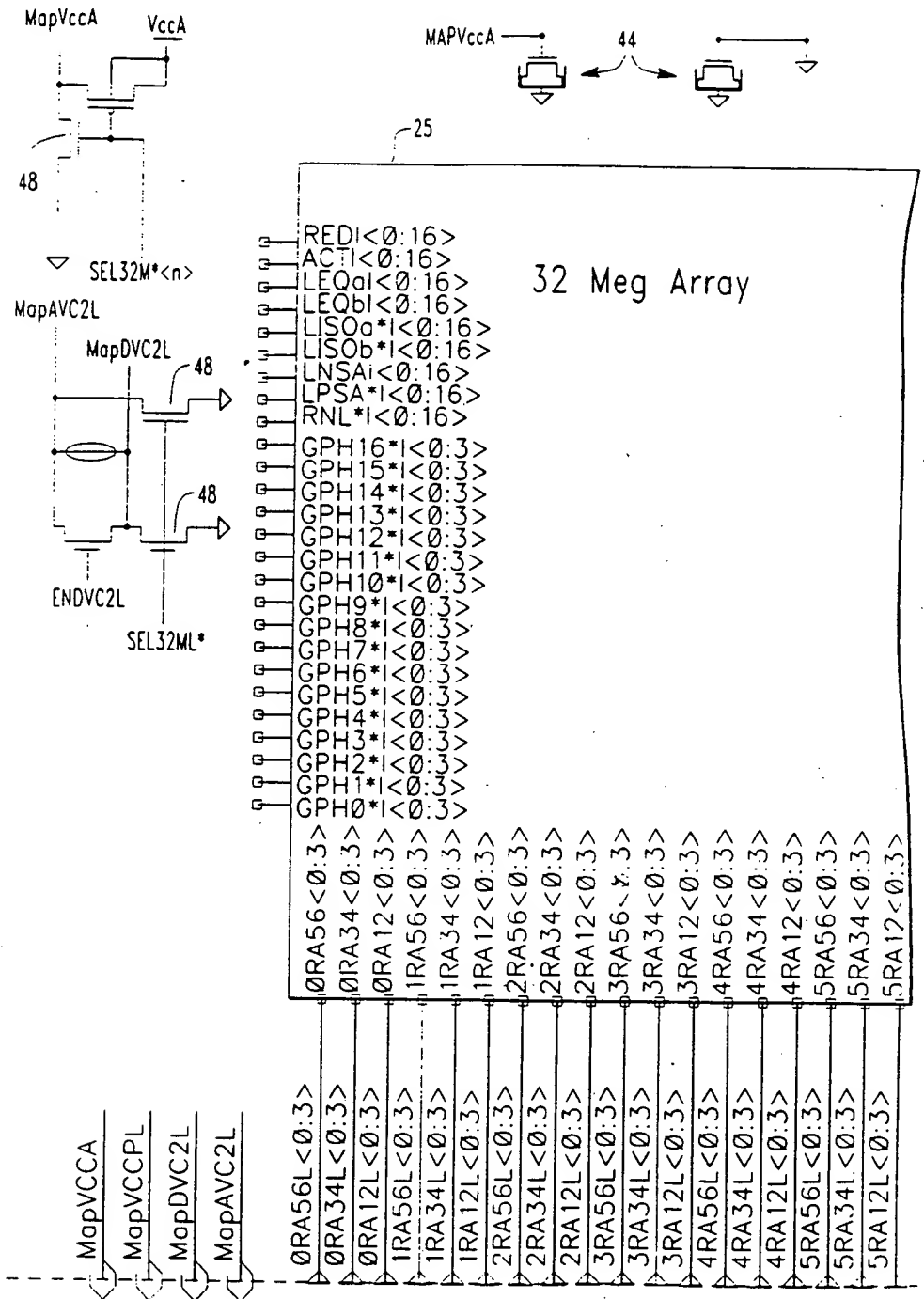


FIG. 3B

00290-1258860

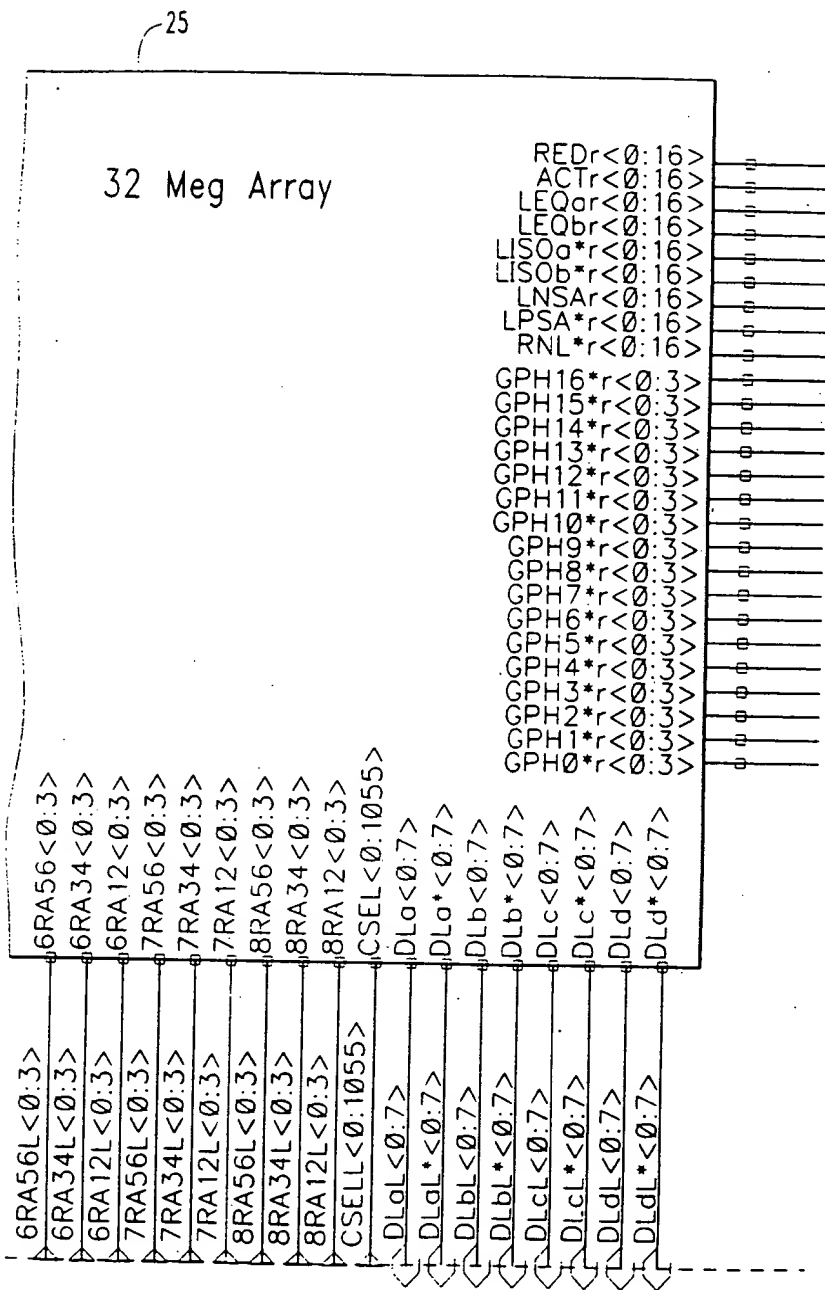


FIG. 3C

64 Meg Array

- 29

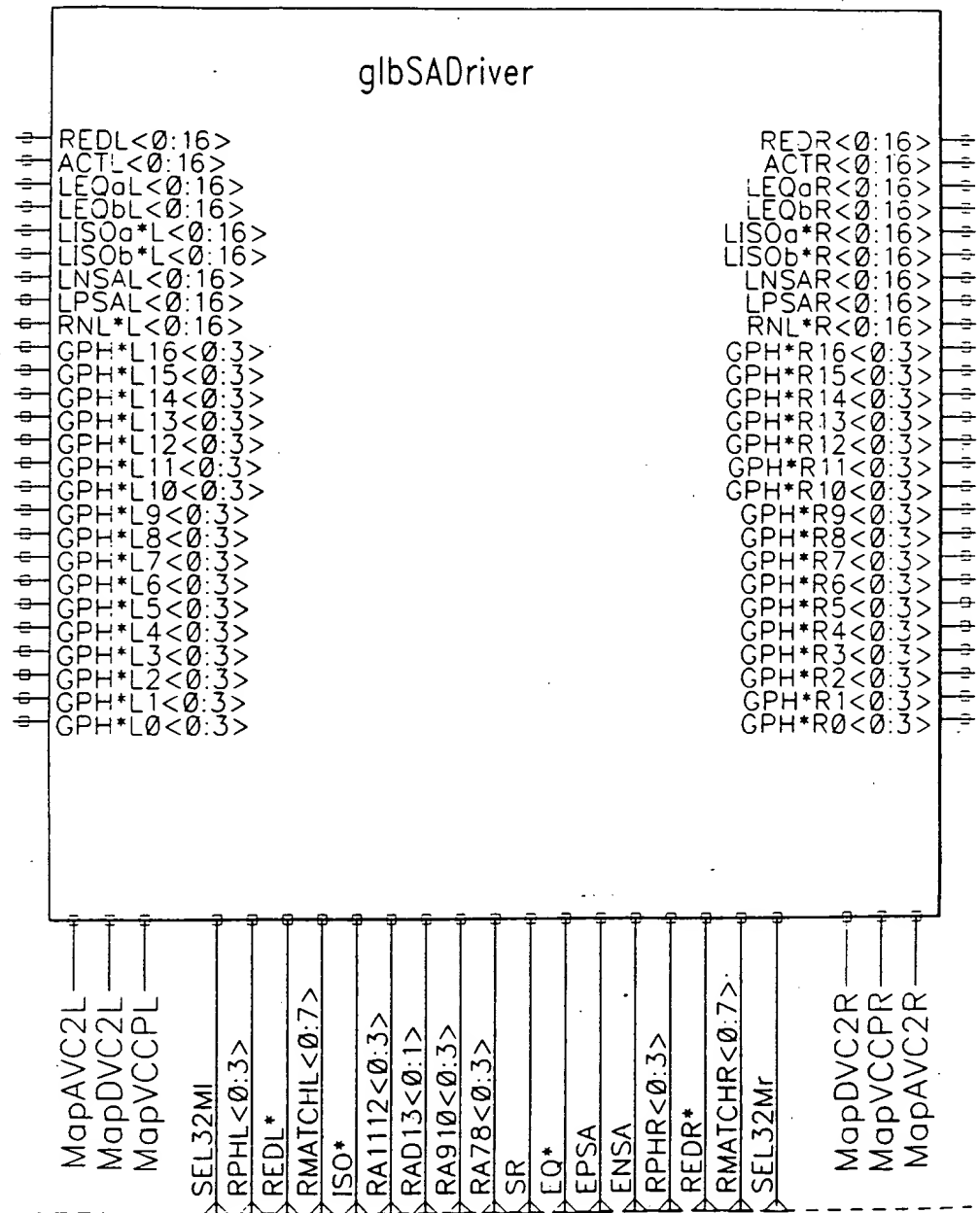
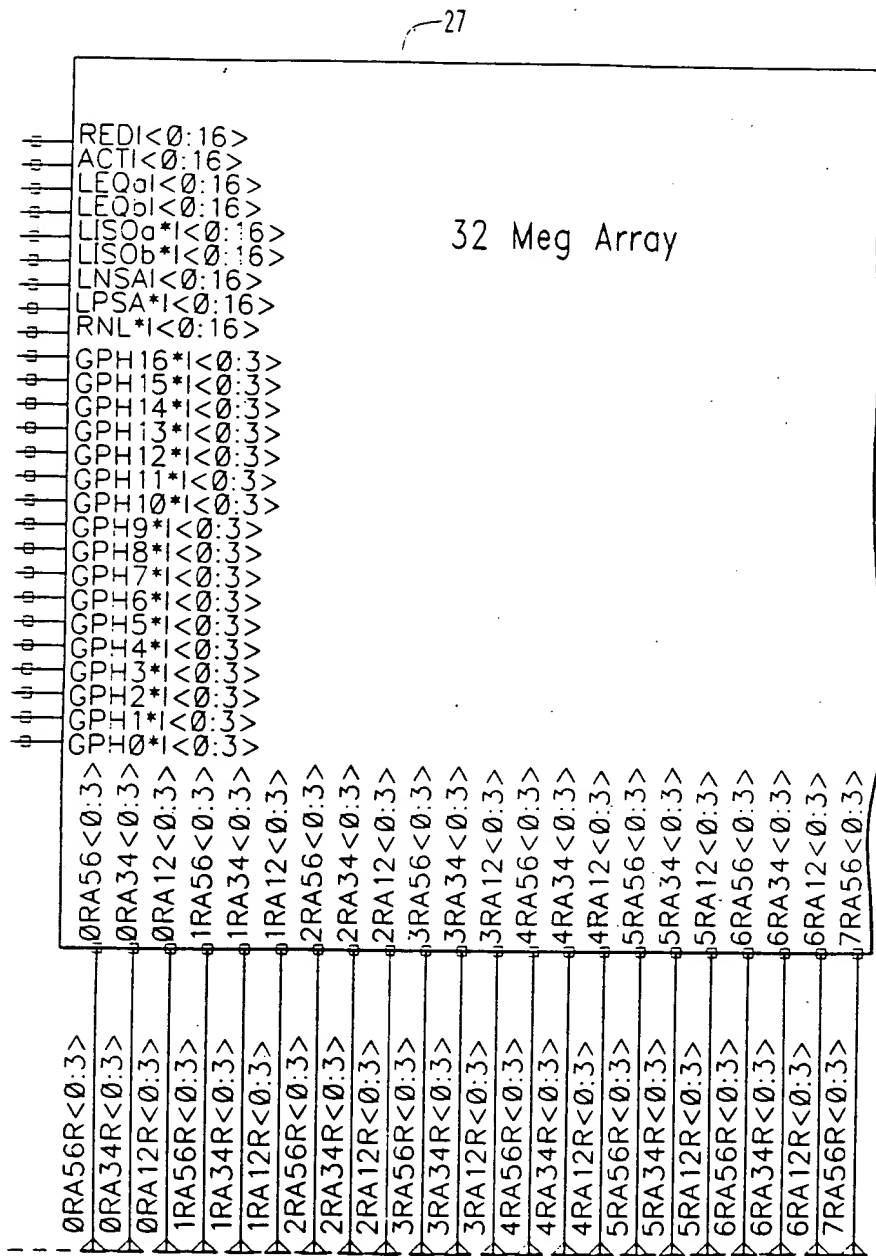
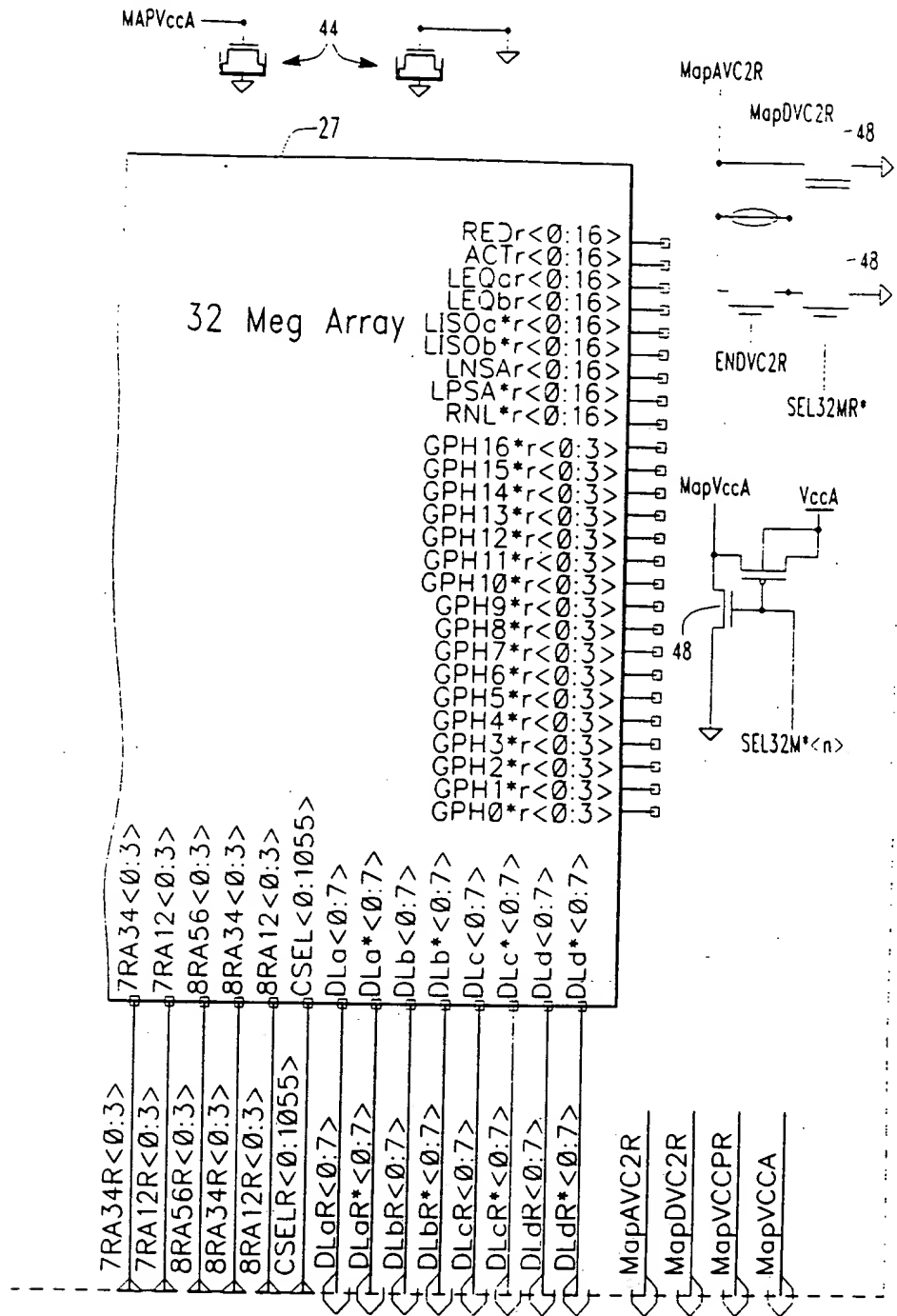


FIG. 3D

6,367



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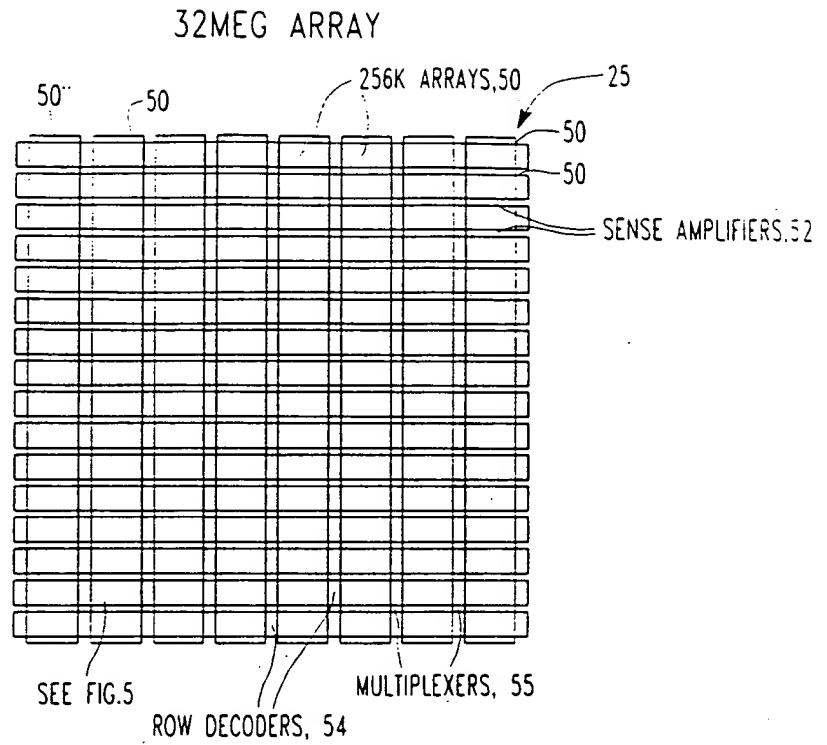


FIG. 4

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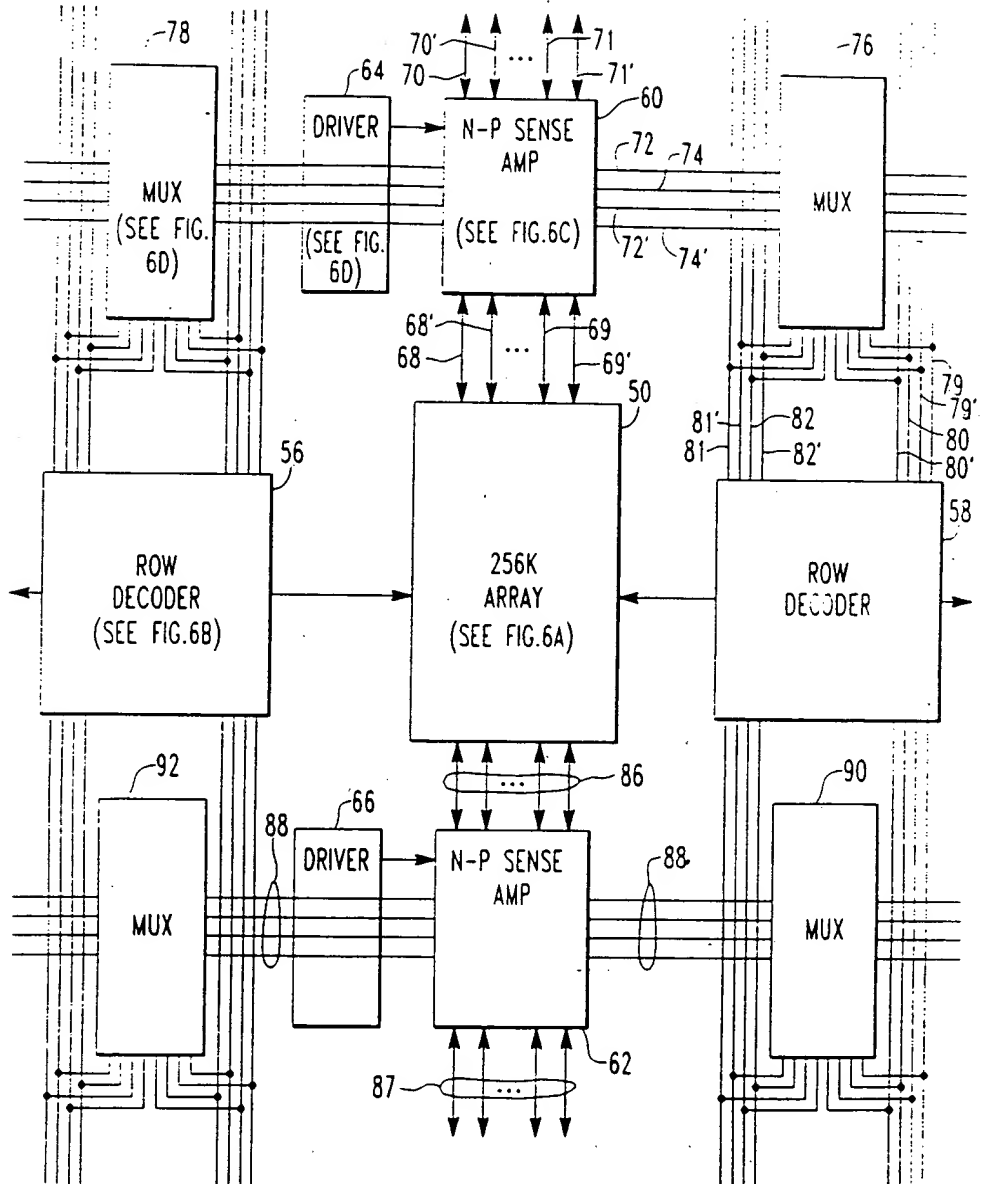


FIG. 5

10,367

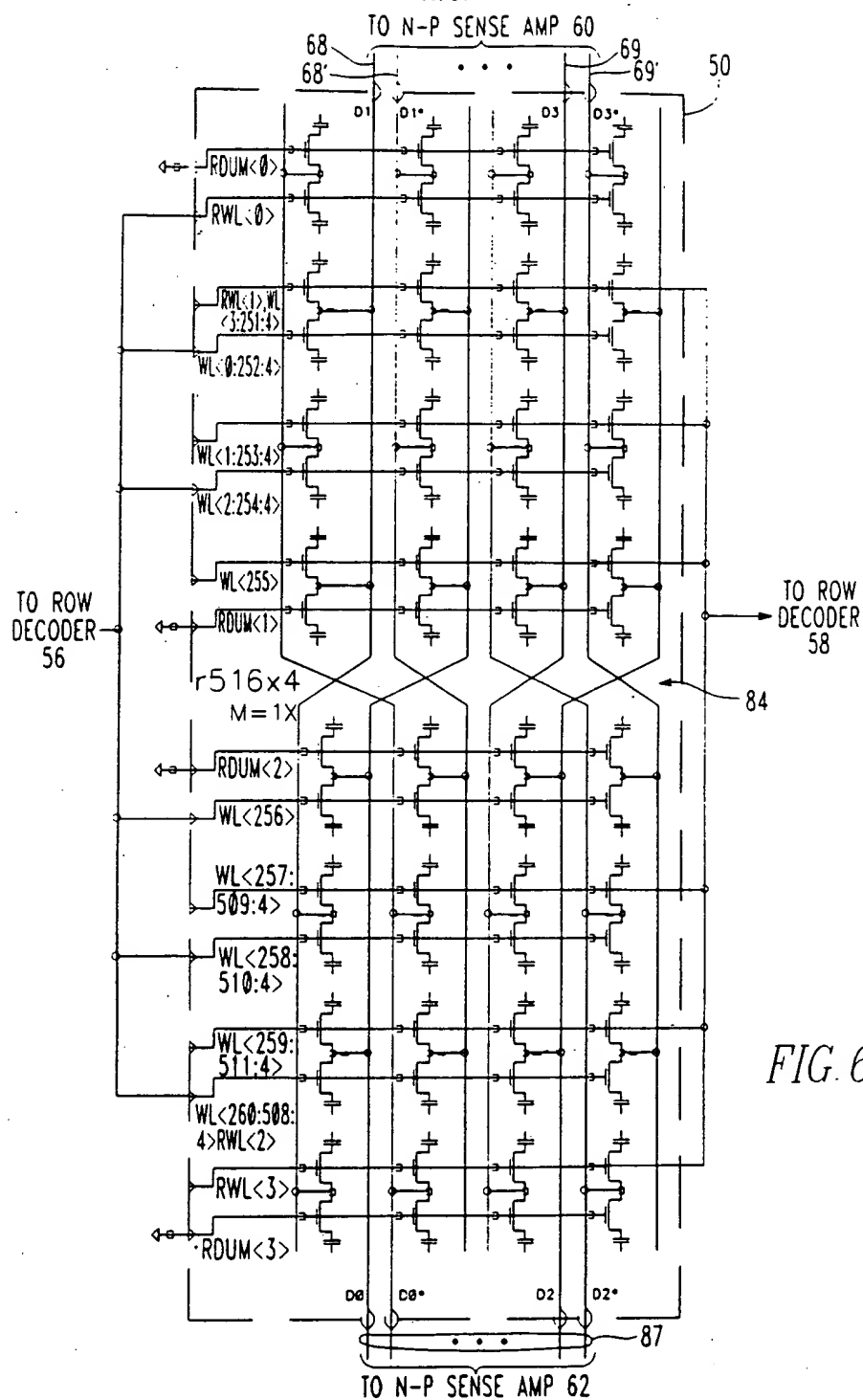


FIG. 6A

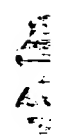


FIG. 6B

Connections of odd/even columns to IOa and IOb alternates with odd/even column select lines:
CA01* D1(even) D2(odd)

FIG. 6C

TO ARRAY 50

09885217-062001

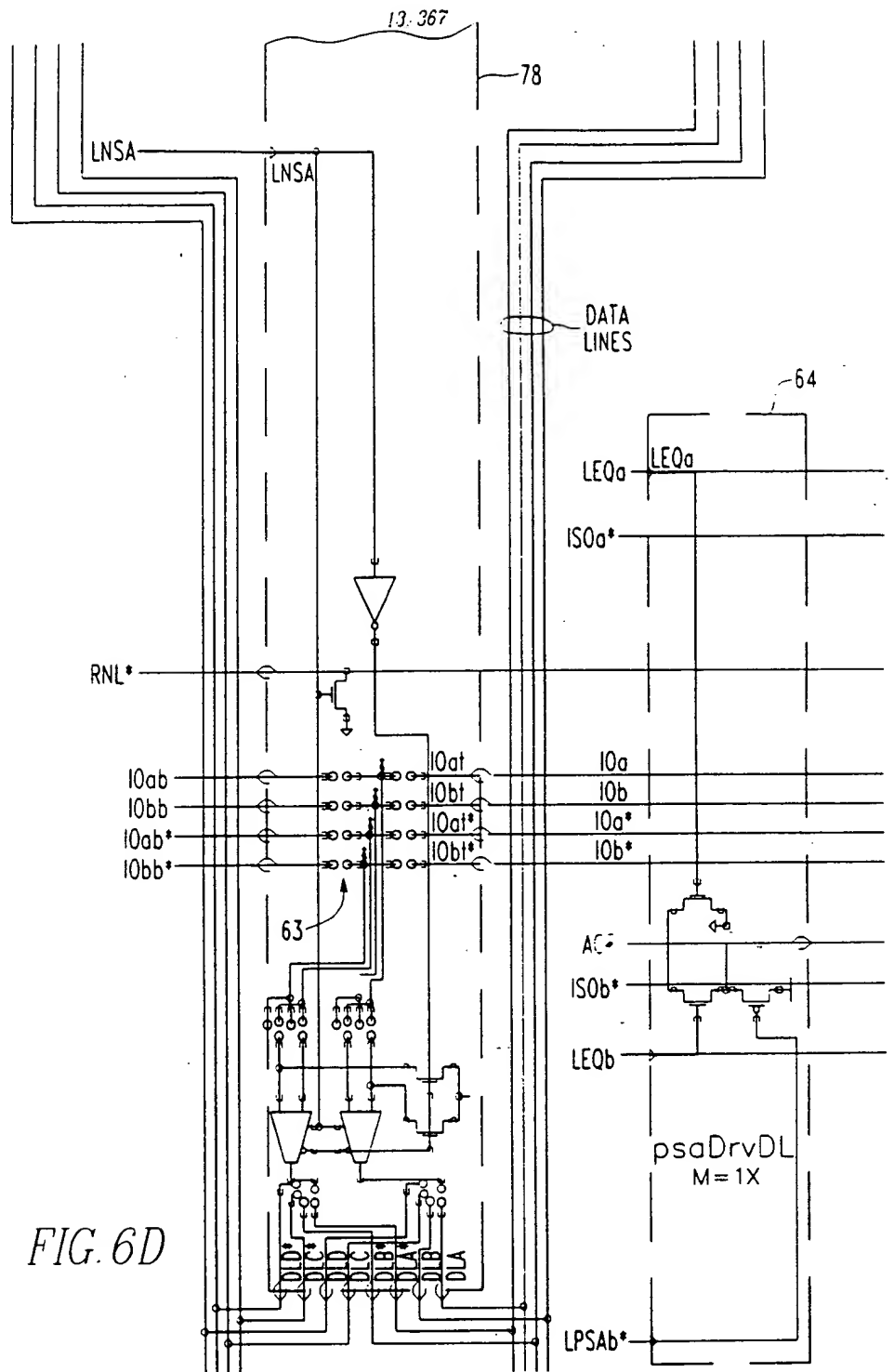
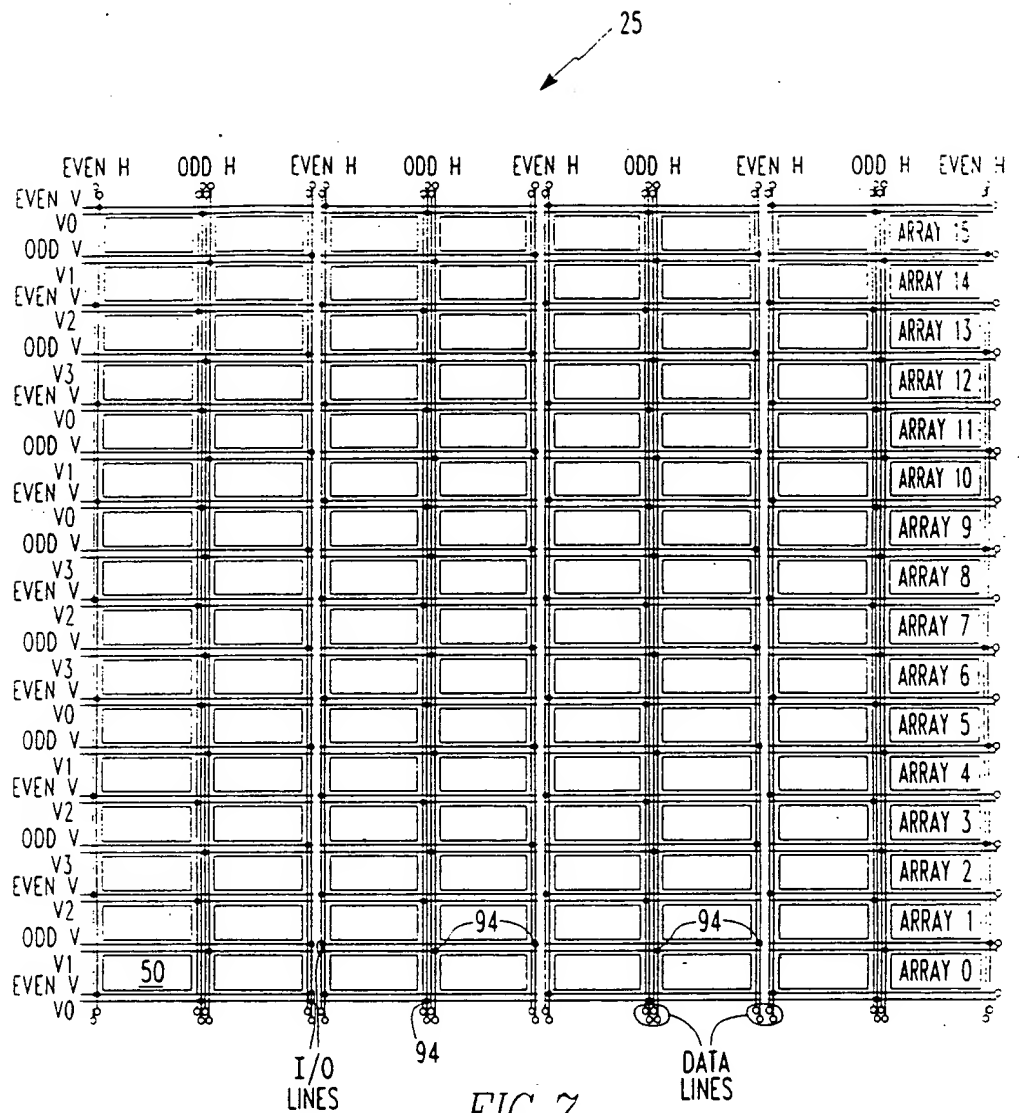


FIG. 6D

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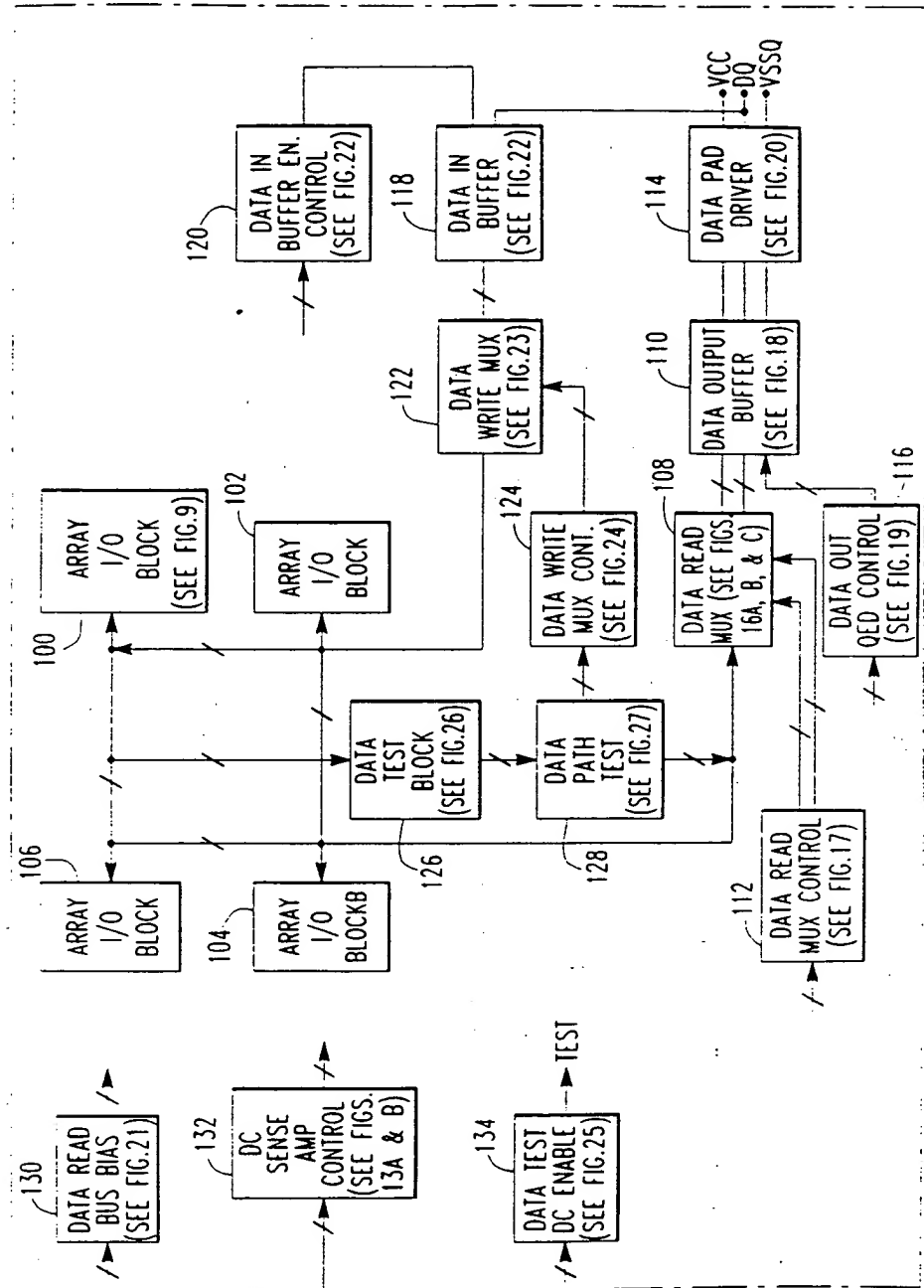
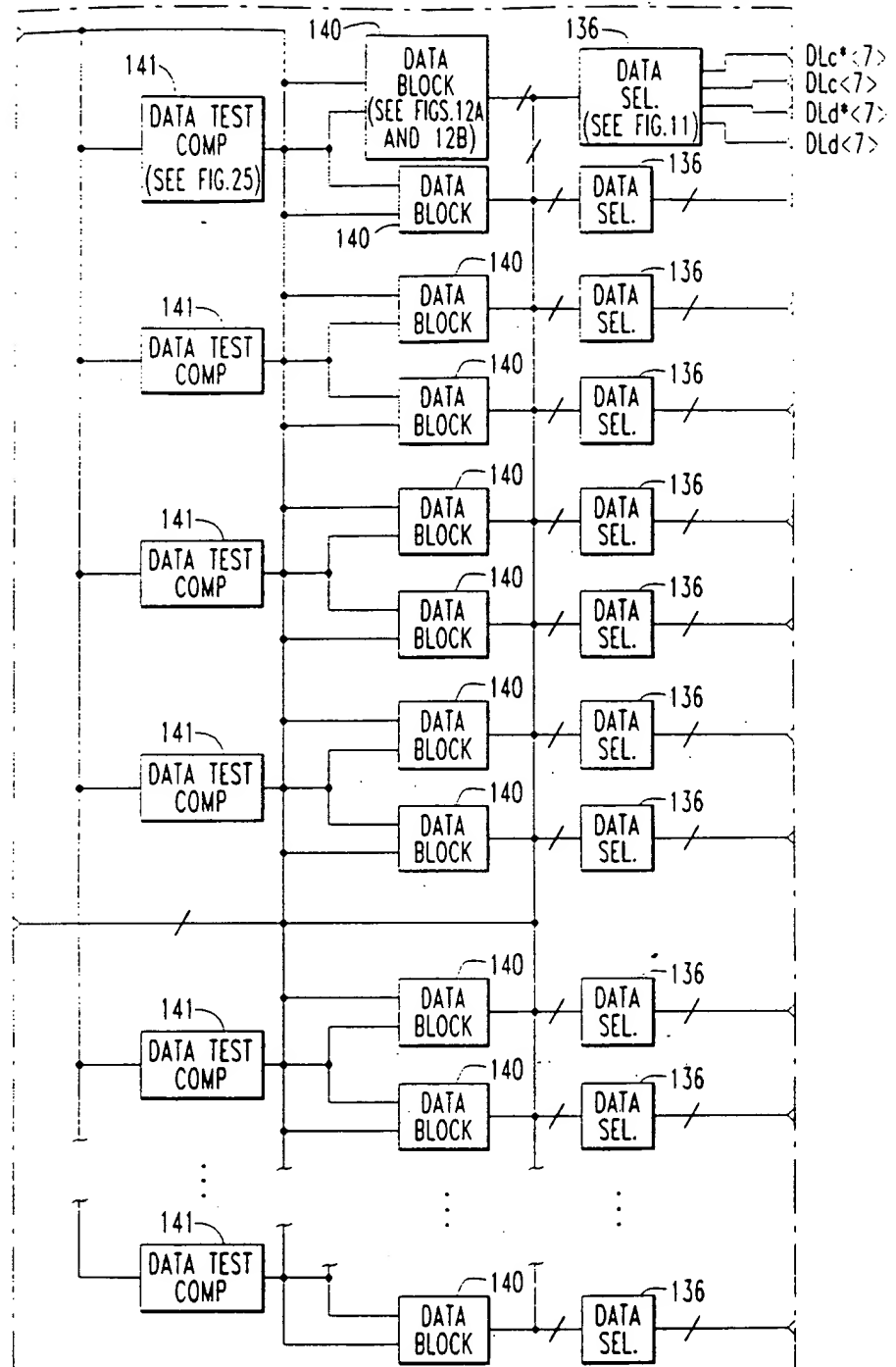


FIG. 8



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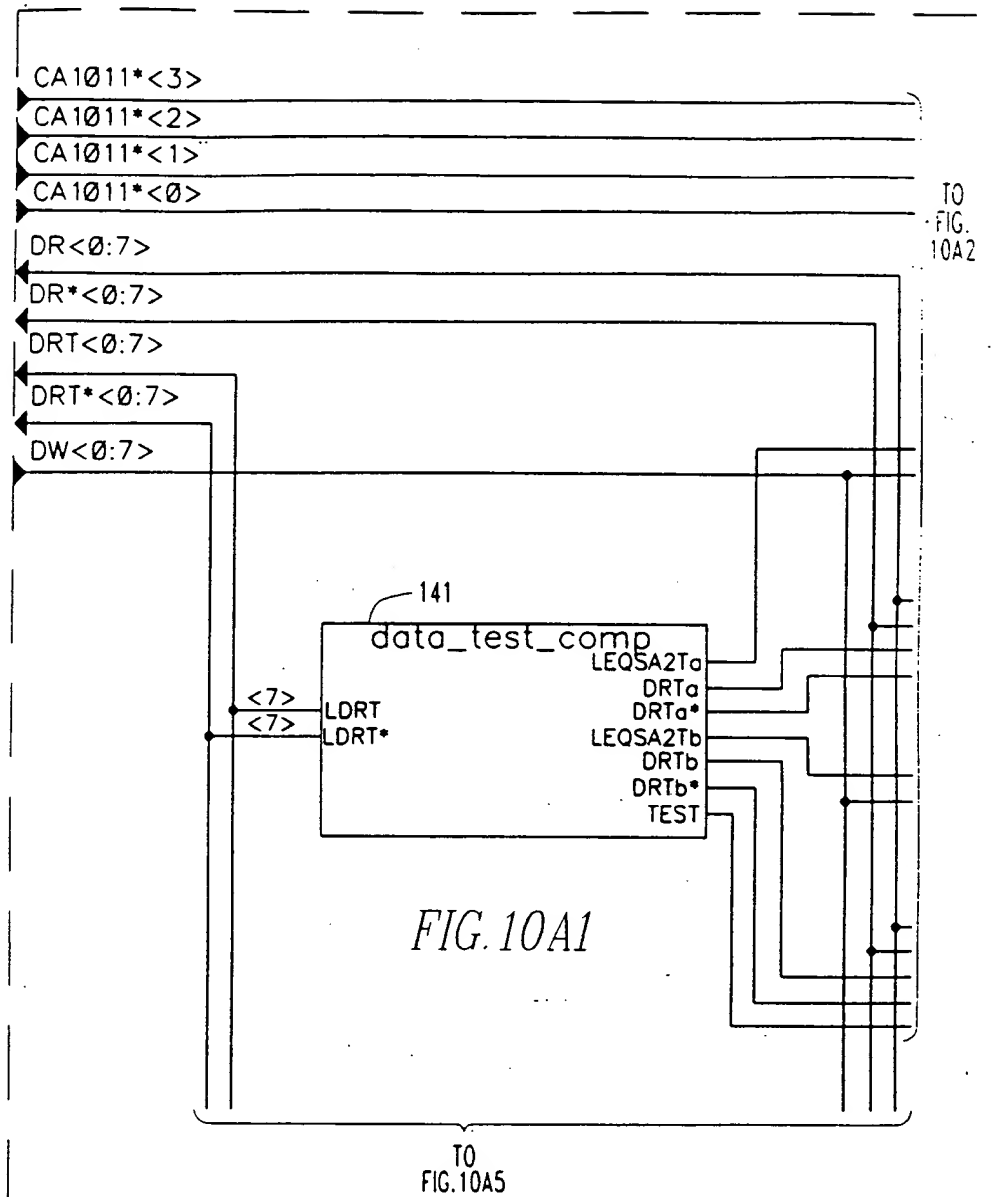
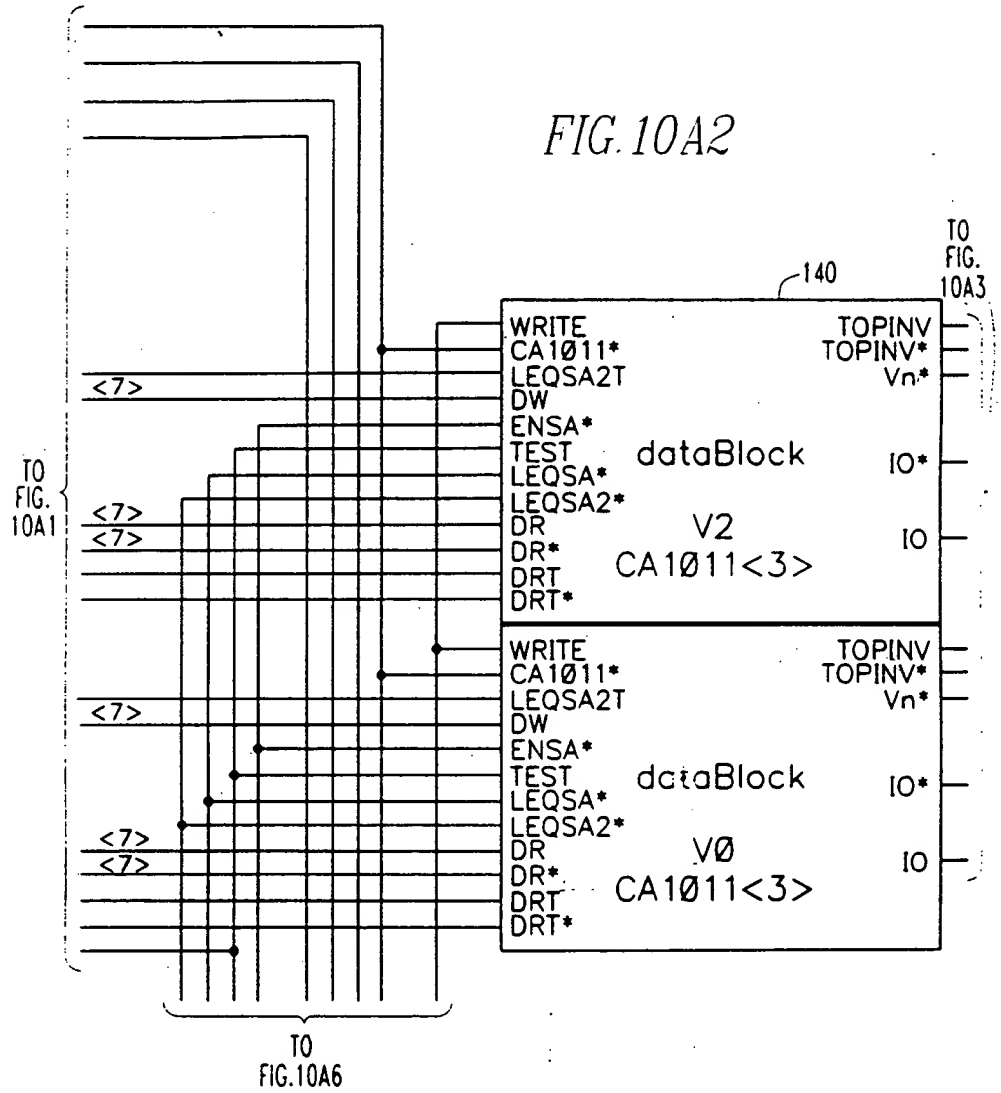
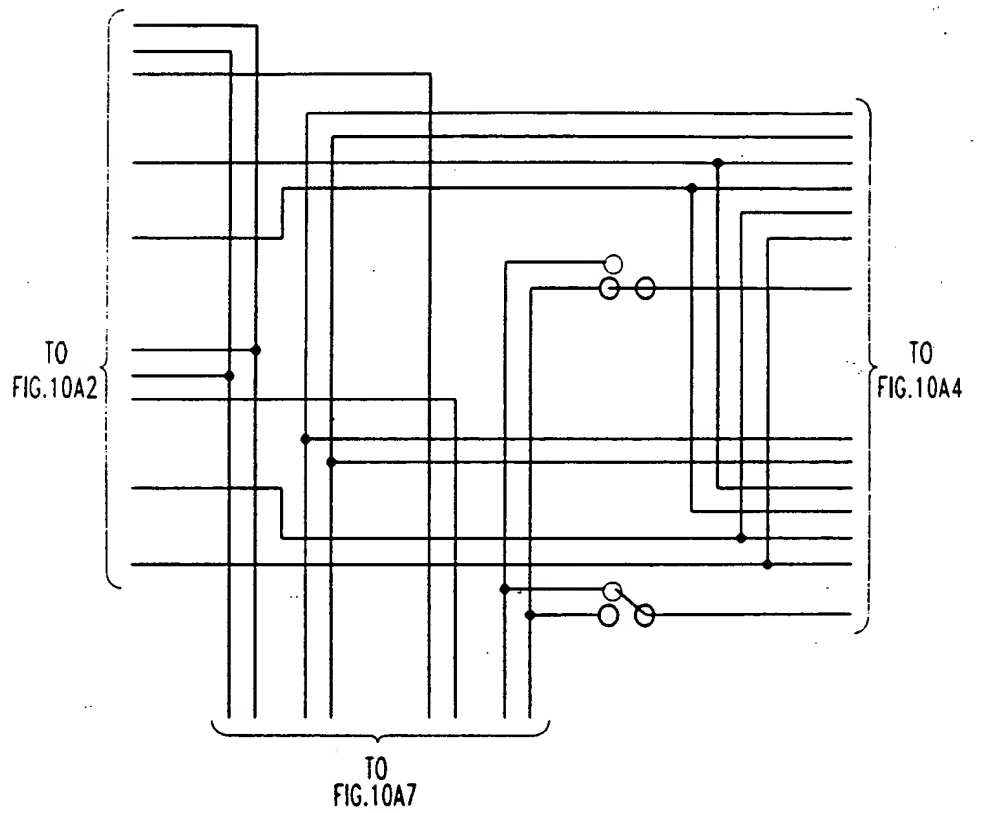


FIG. 10A2



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FIG. 10A3

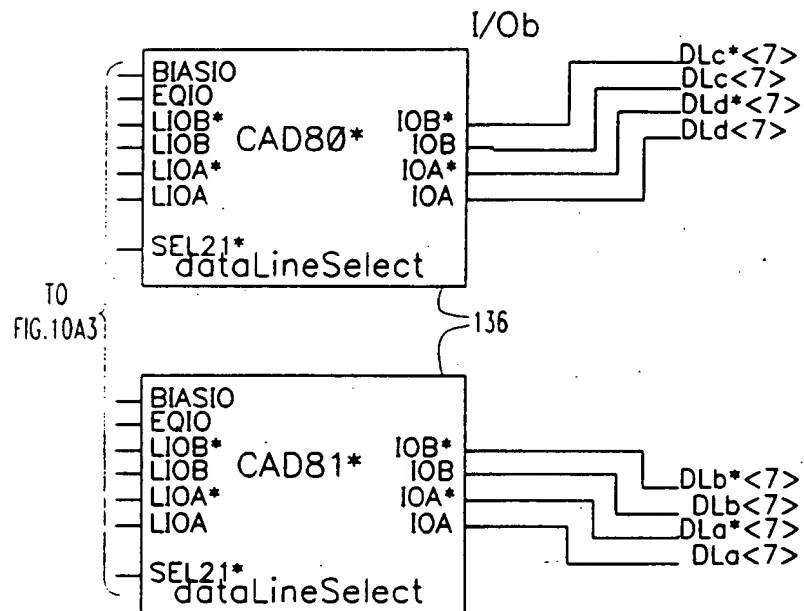


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arrayIOBlock

100

FIG. 10A4



21,367

11
100290-125860

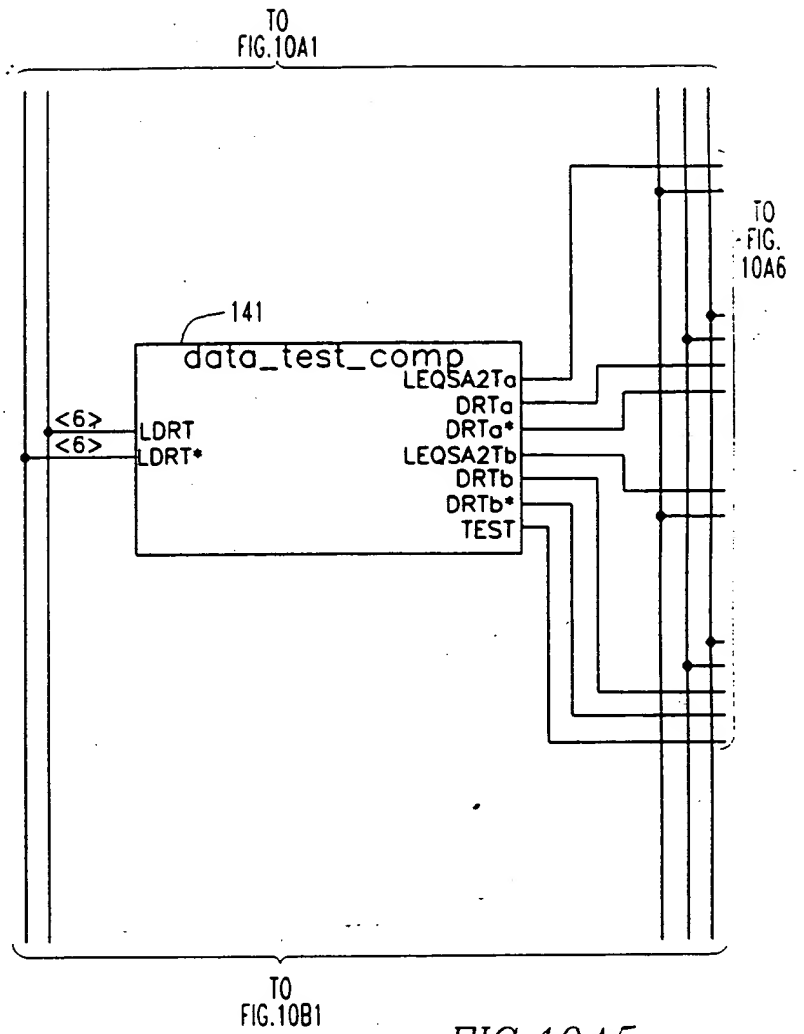


FIG. 10A5

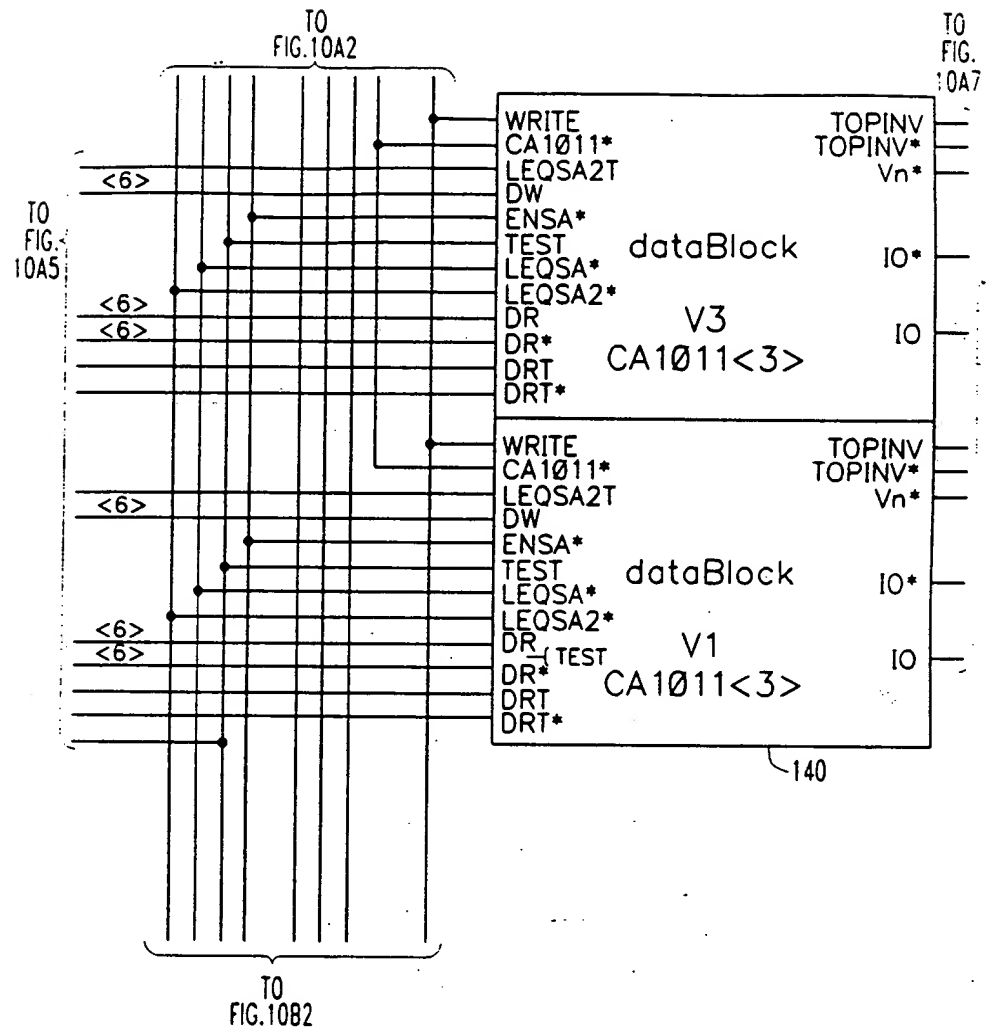


FIG. 10A6

09885217-062001

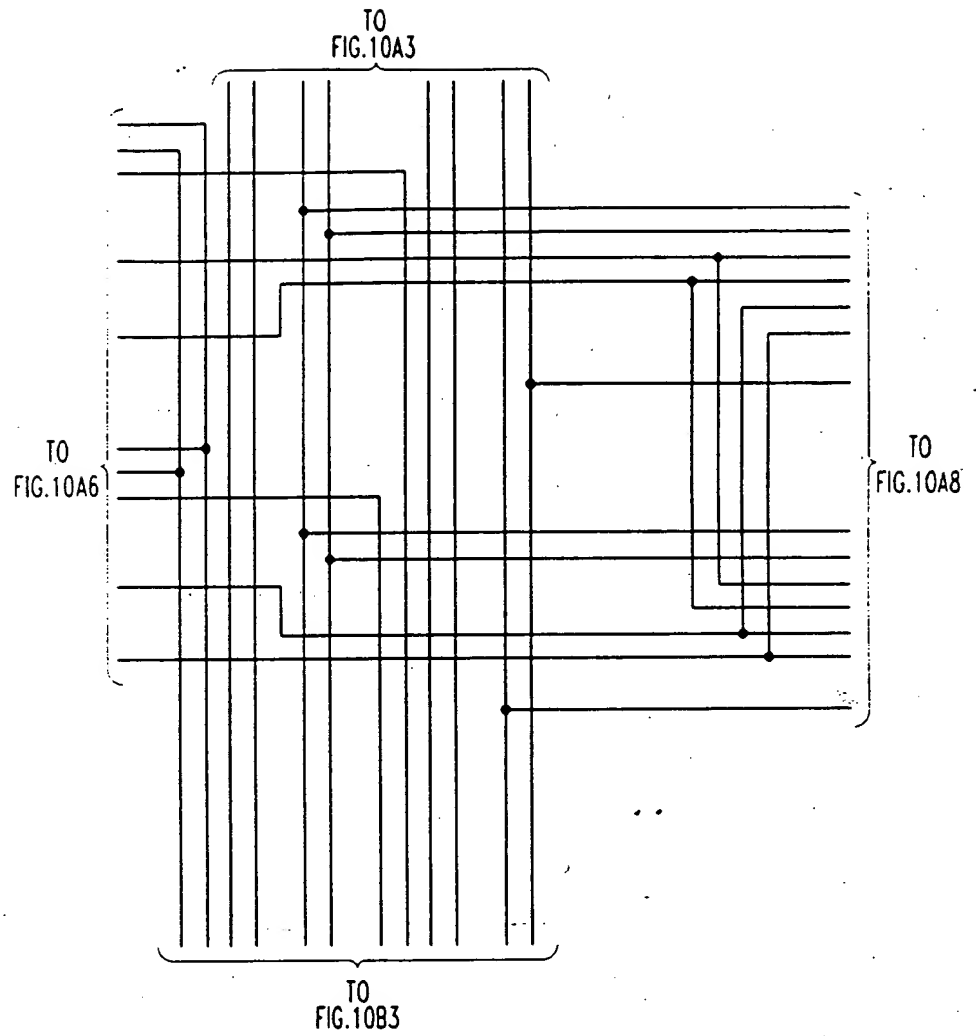


FIG. 10A7

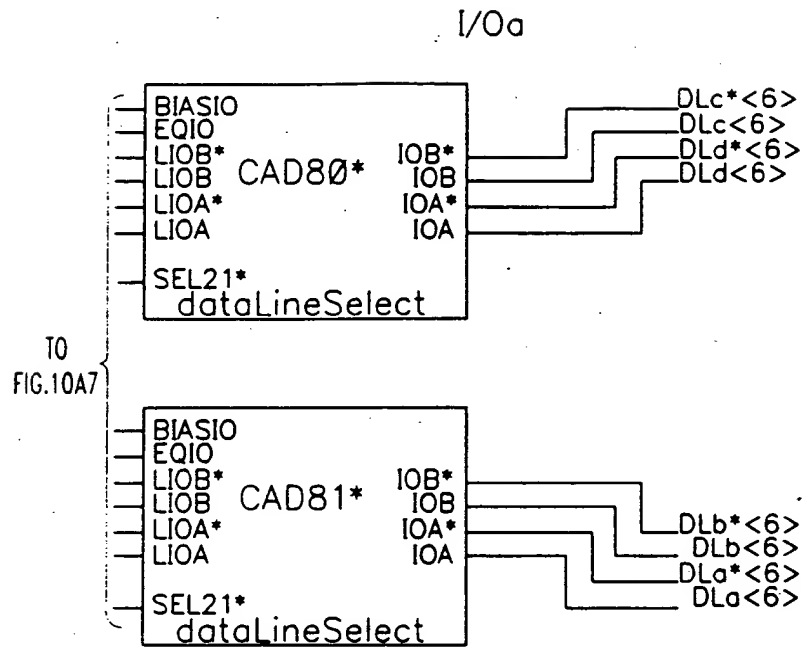


FIG.10A8

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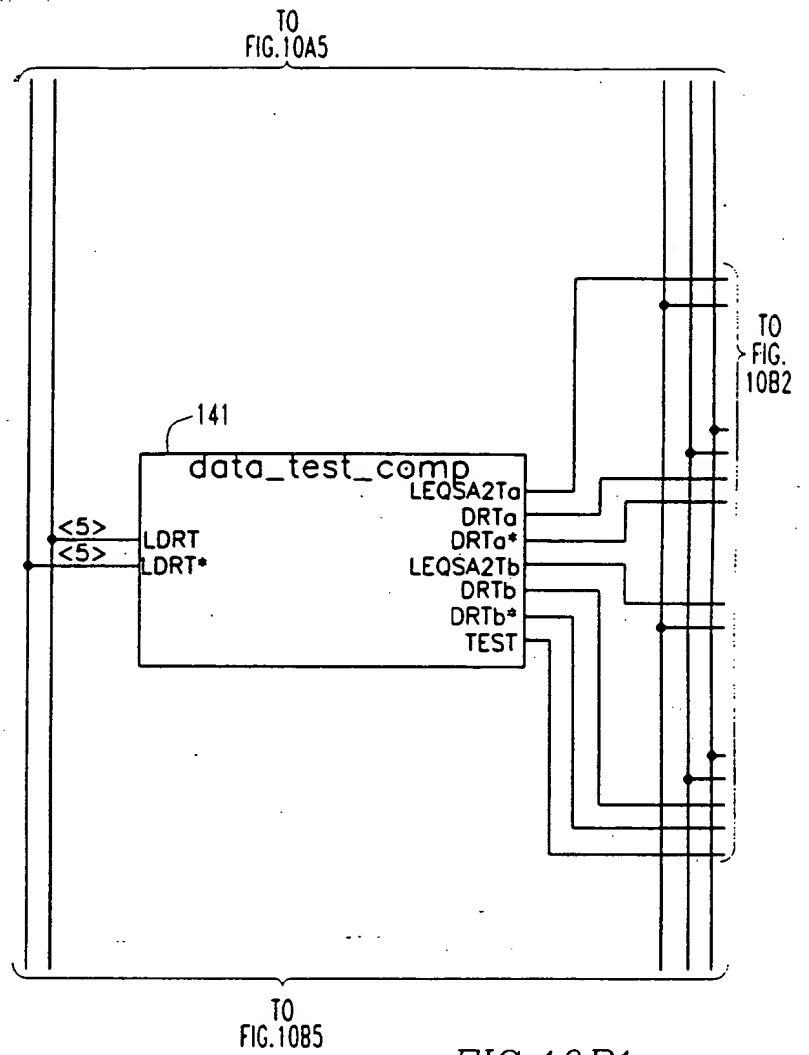
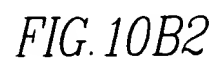


FIG. 10B1



09885217 062001

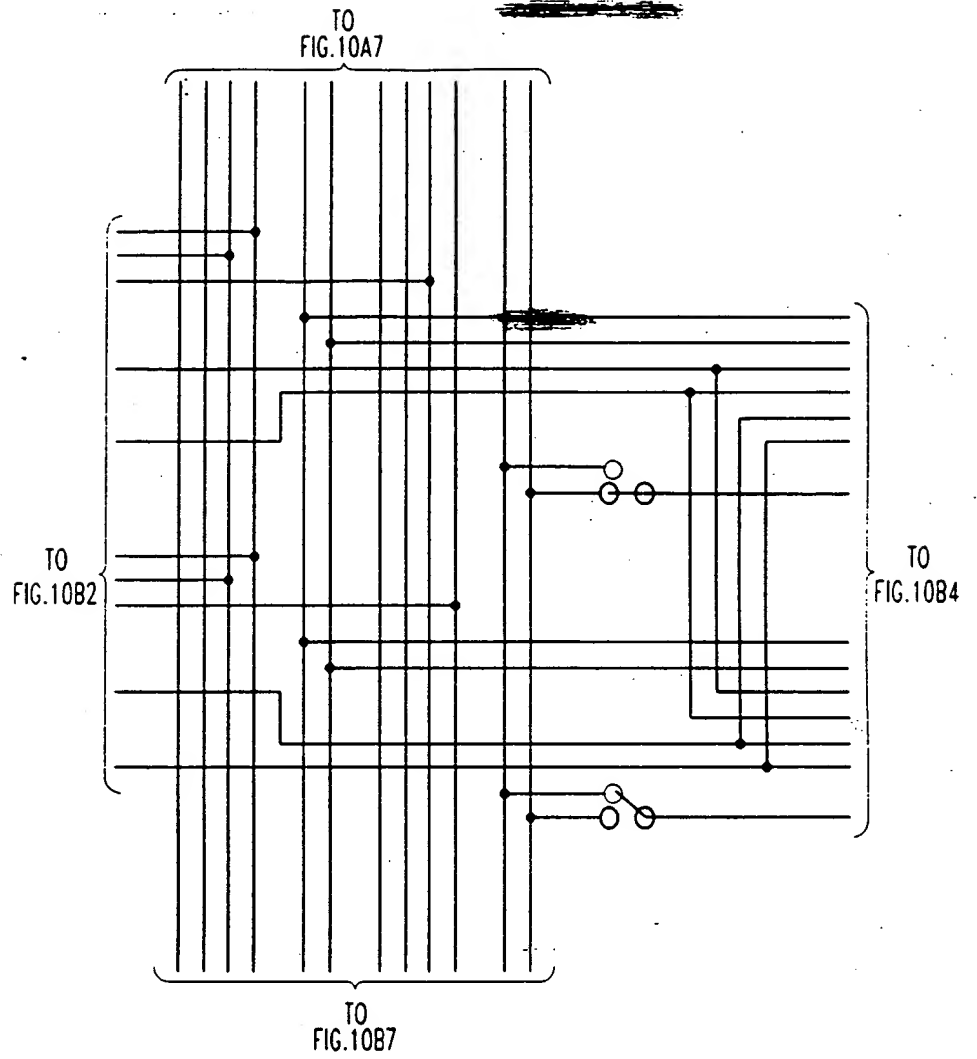


FIG. 10B3

09885217-062001

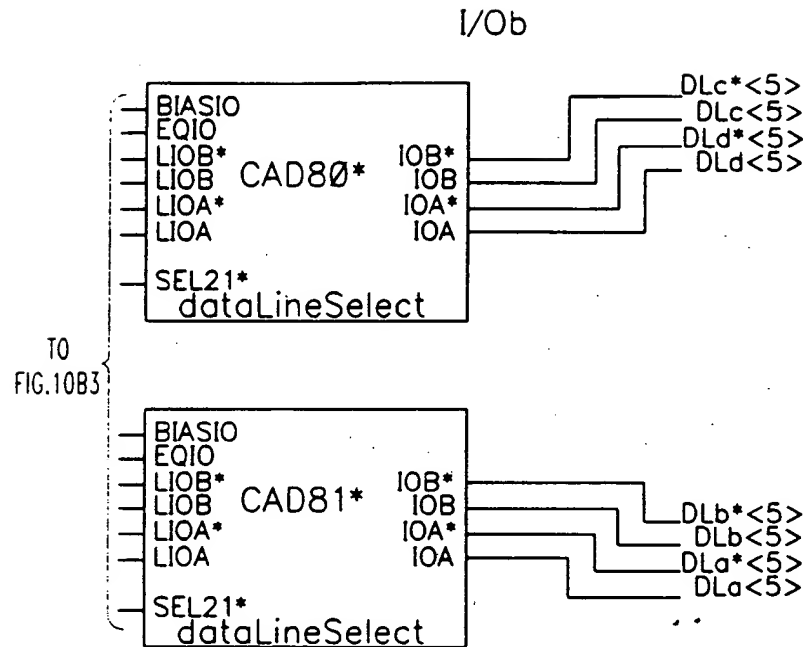
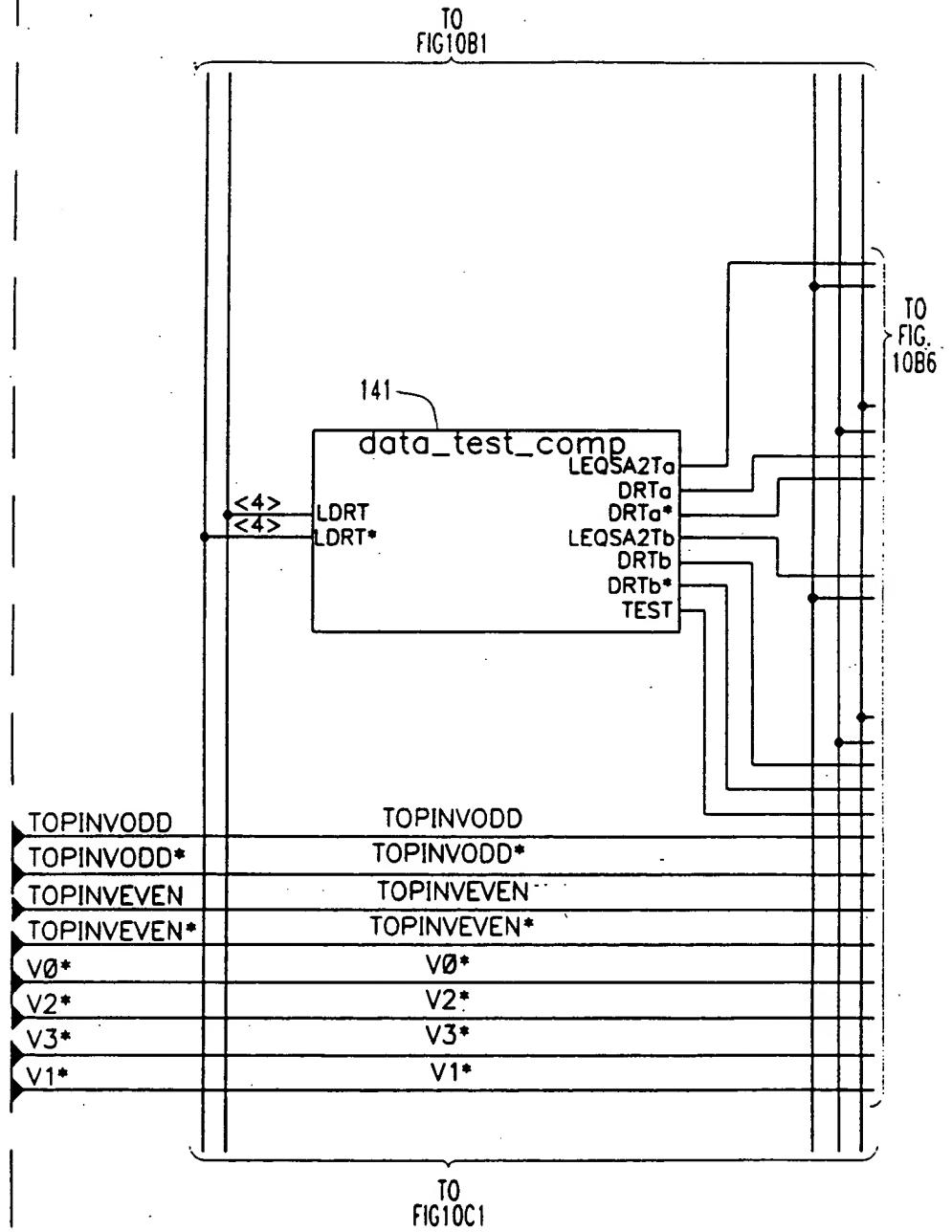


FIG.10B4

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FIG. 10B5



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FIG. 10B6

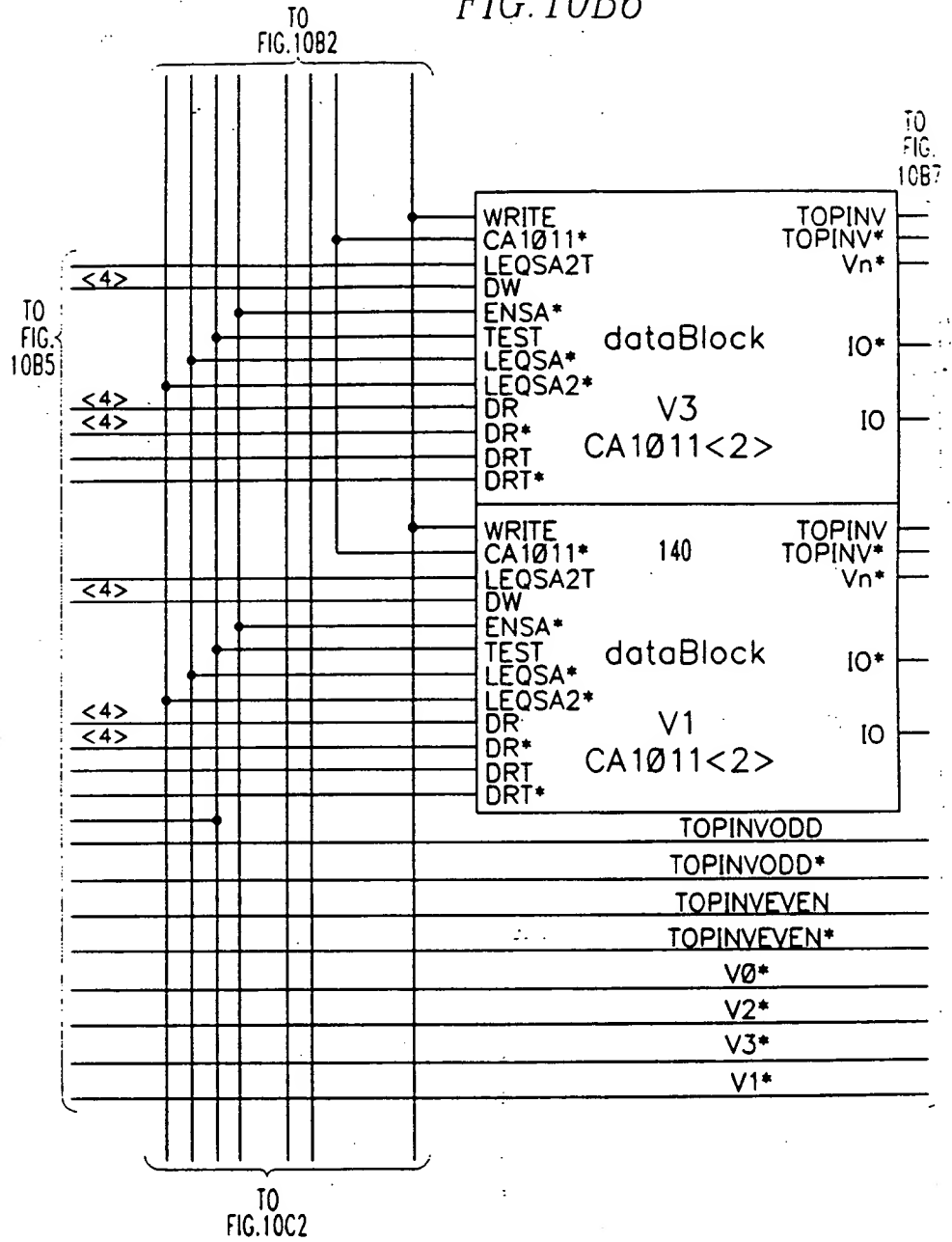
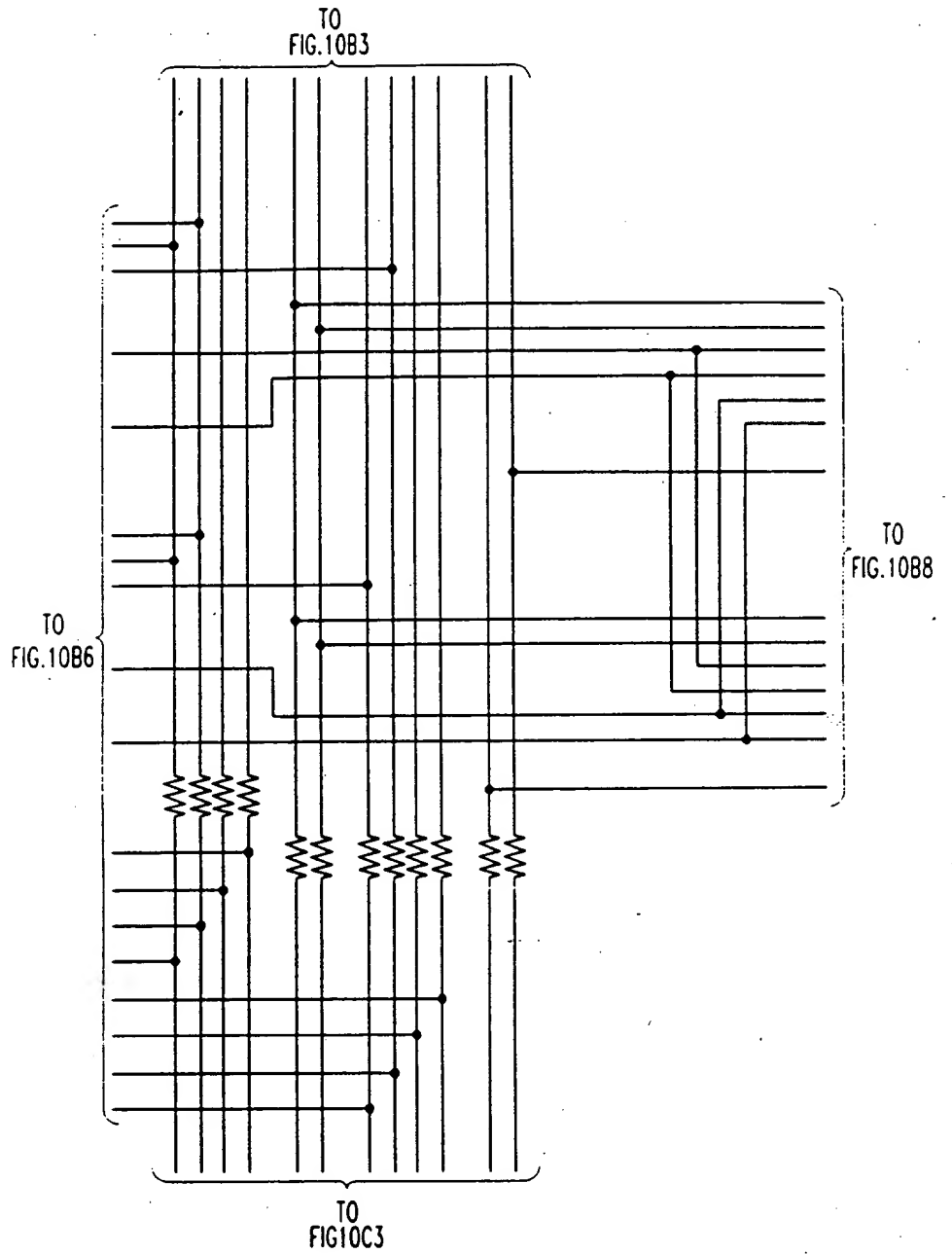
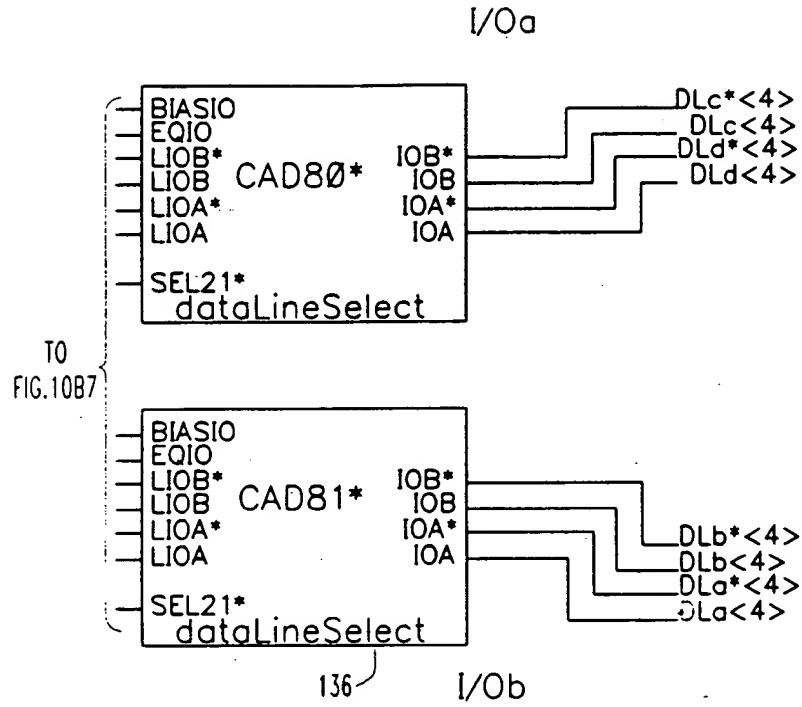


FIG. 10B7



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FIG. 10B8



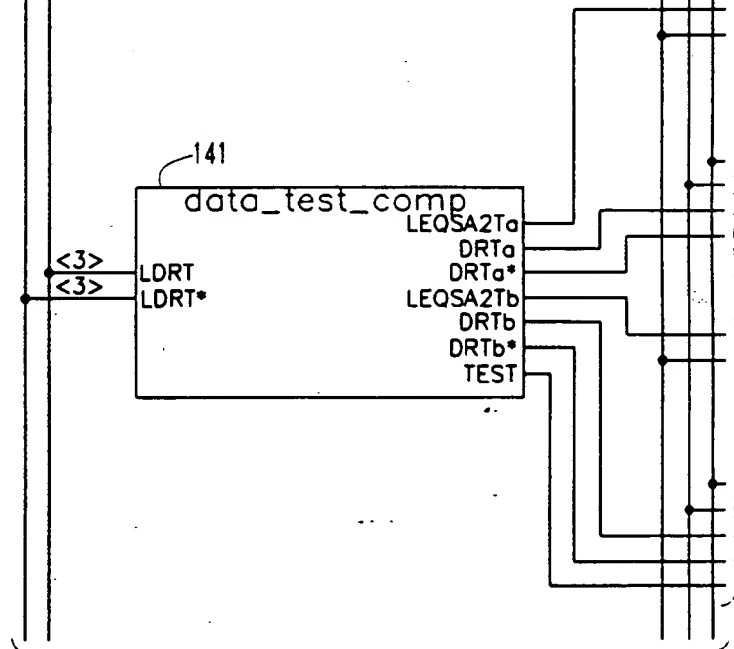
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TO
FIG.10B5

ENSA*	ENSA*
EQIO	EQIO
BIASIO	BIASIO
EQSA*	EQSA*
EQSA2*	EQSA2*
CAD80*	CAD80*
CAD81*	CAD81*
WE	WE
TEST	TEST

TO
FIG.
10C2

0985217 1062001
100290/258860



TO
FIG.10C5

FIG.10C1

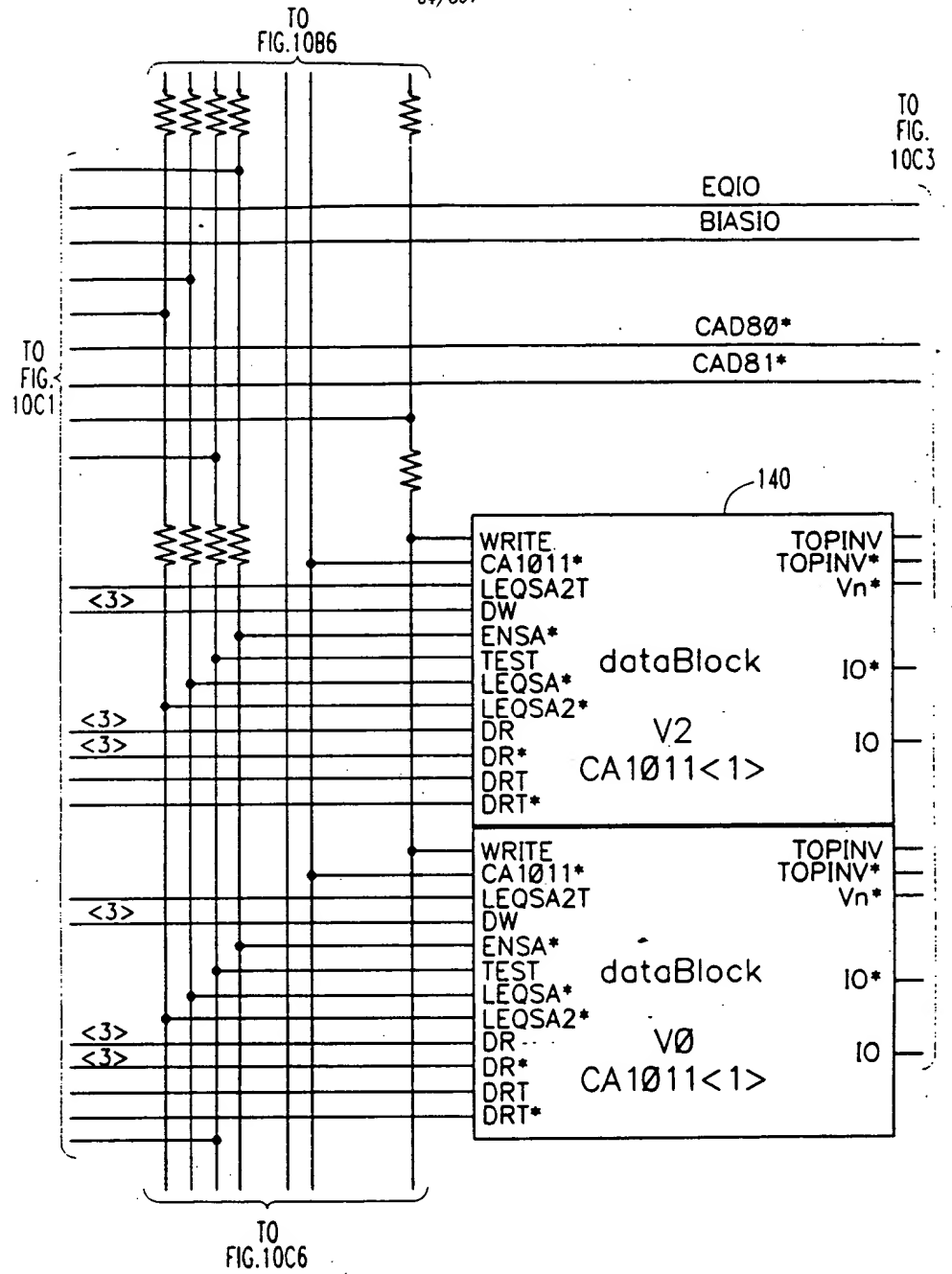


FIG. 10C2

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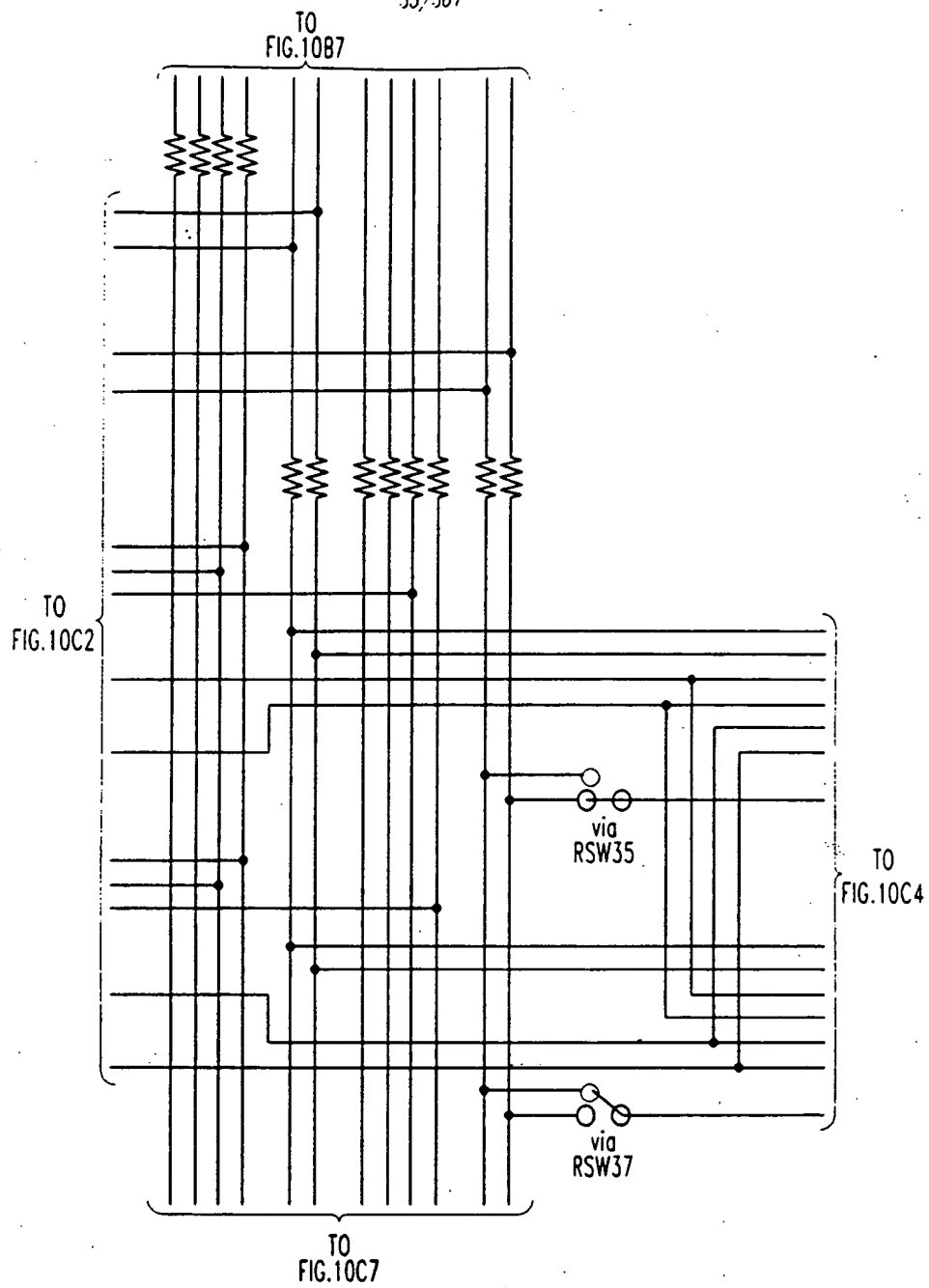
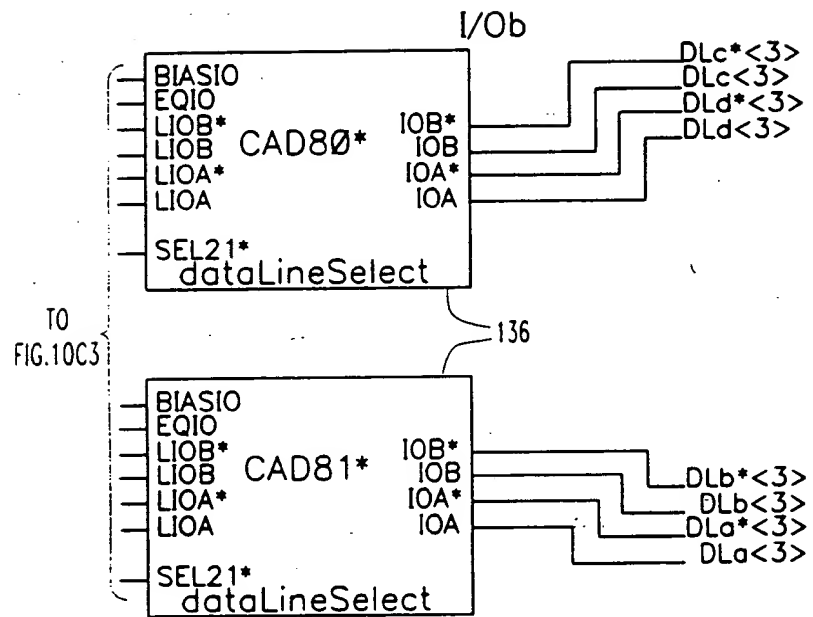


FIG. 10C3

FIG. 10C4



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0088537-062001
100290-7258860

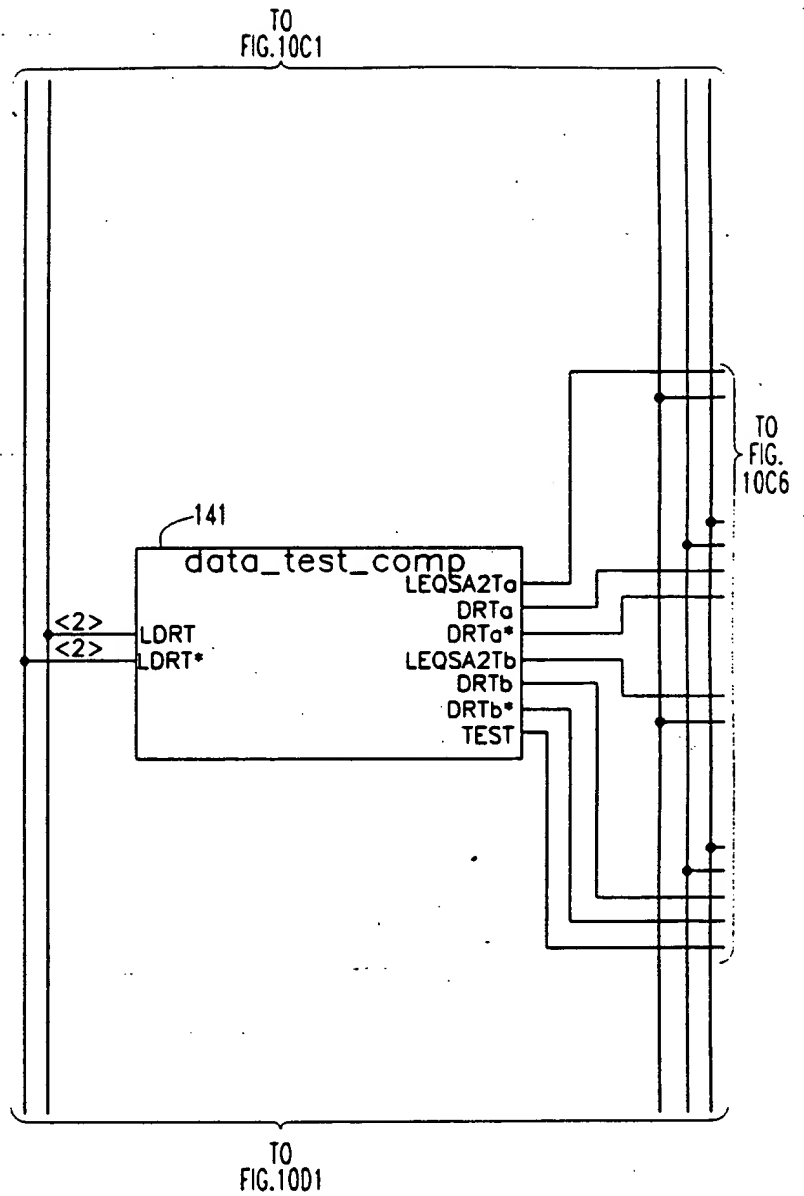


FIG.10C5

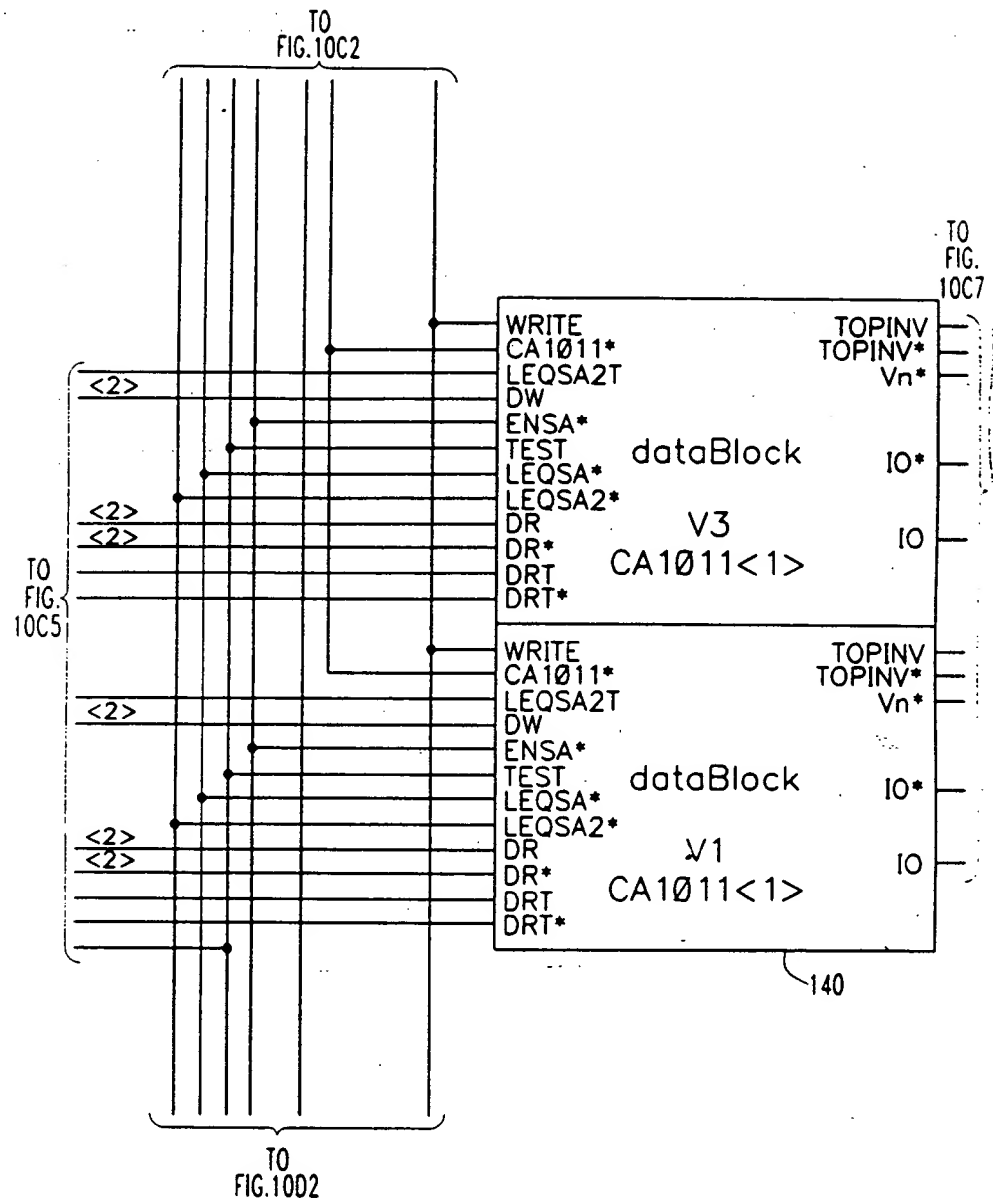


FIG. 10C6

0988517-062001

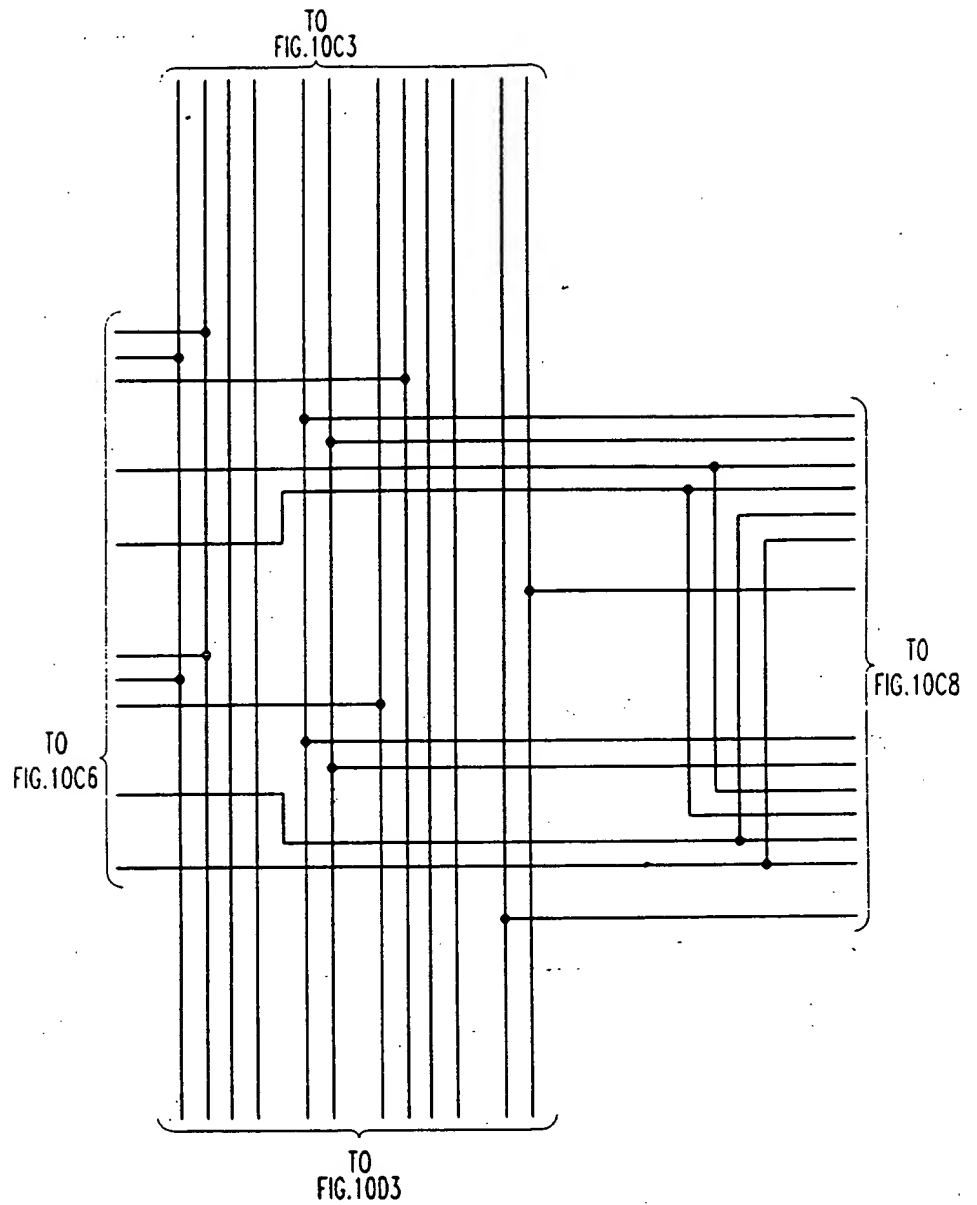


FIG.10C7

0985217-062001

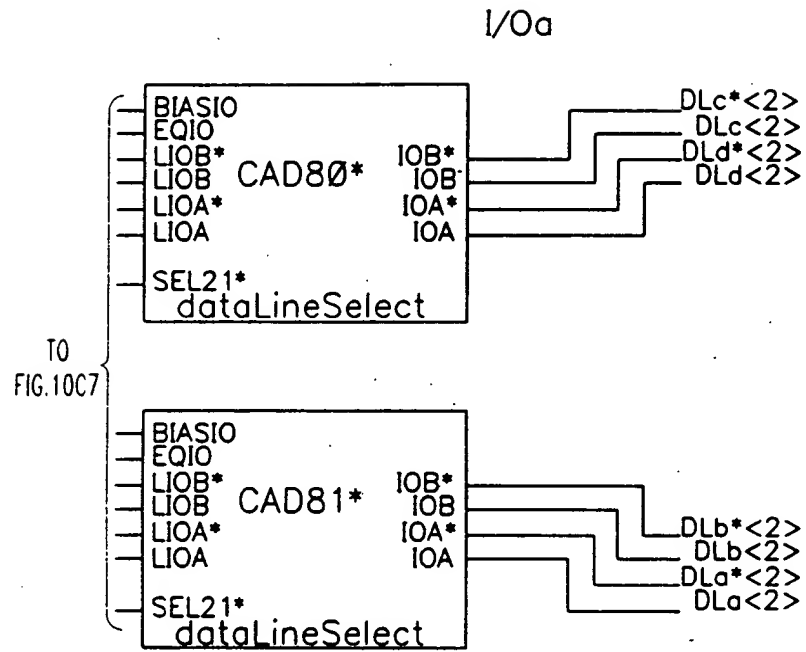


FIG.10C8

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0988547-95004
100290-7258860

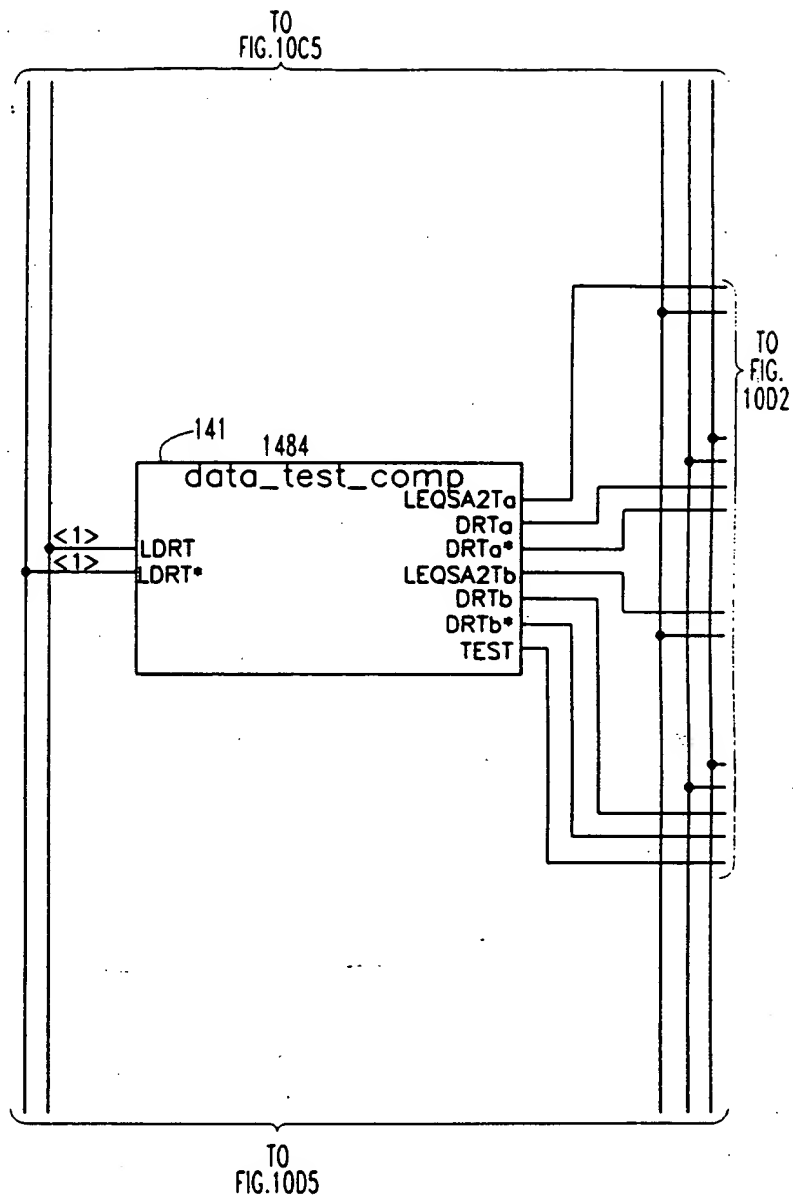


FIG. 10D1

0085217-002001

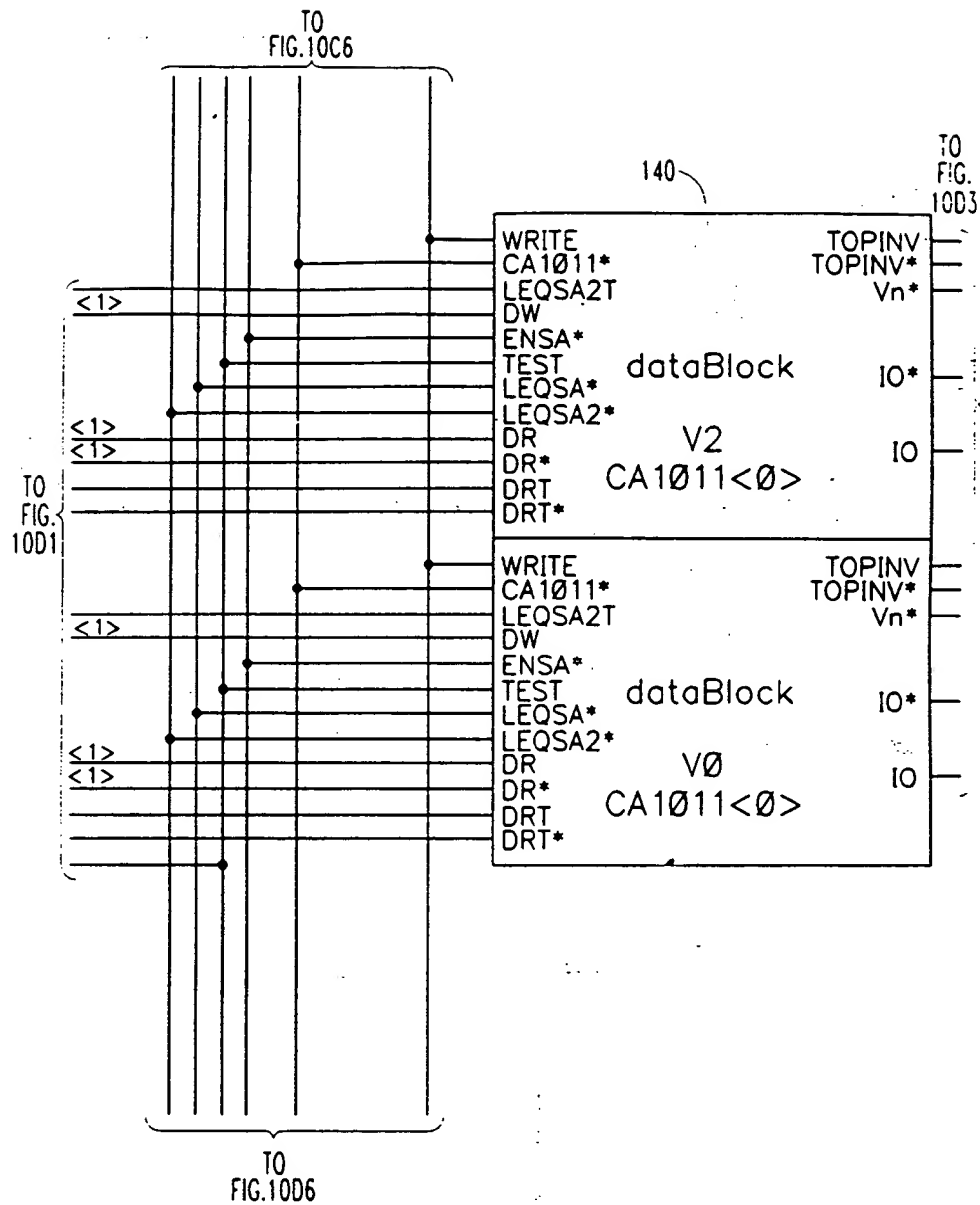


FIG. 10D2

09885217-062001
100290-7258860

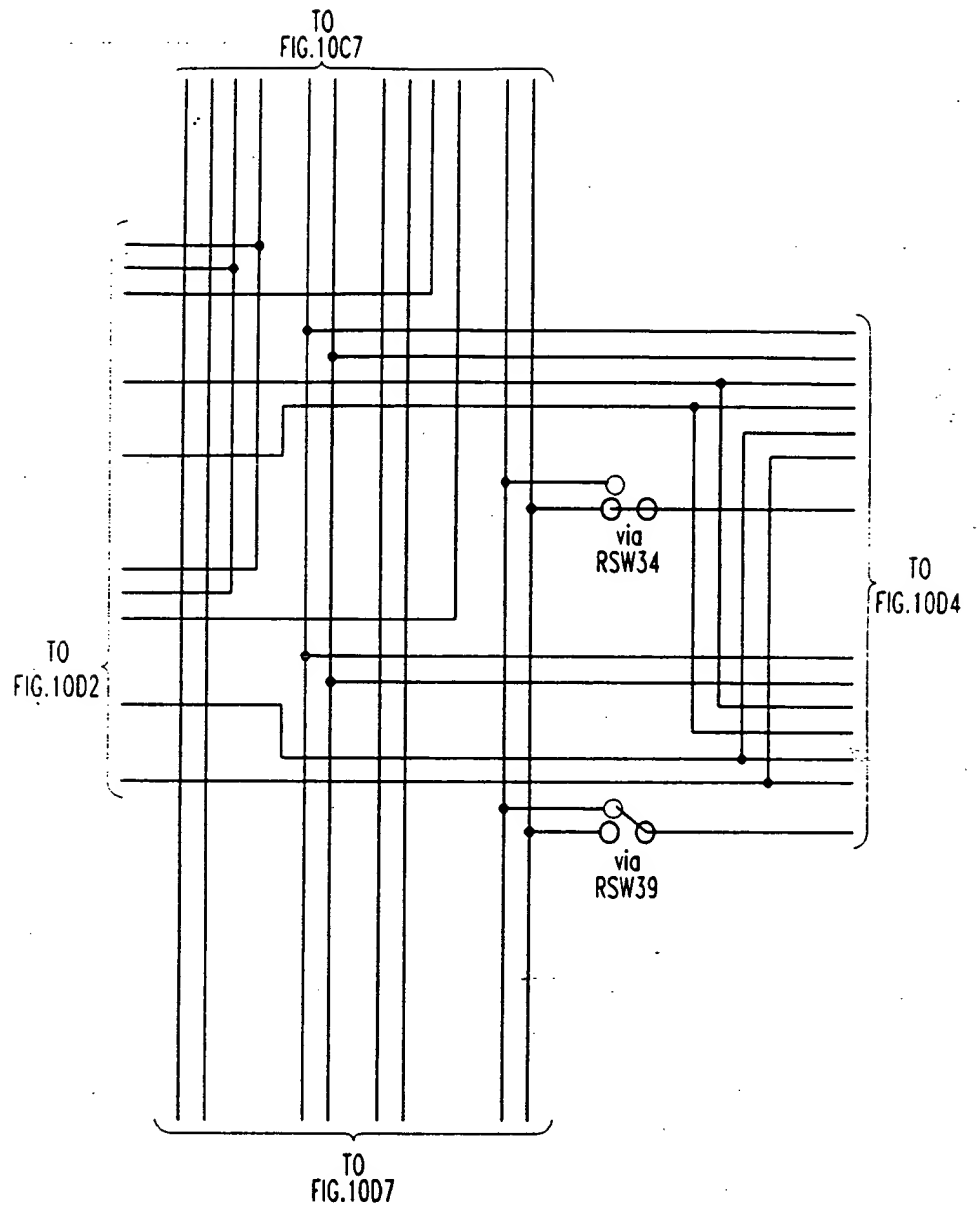


FIG. 10D3

100290-71258860

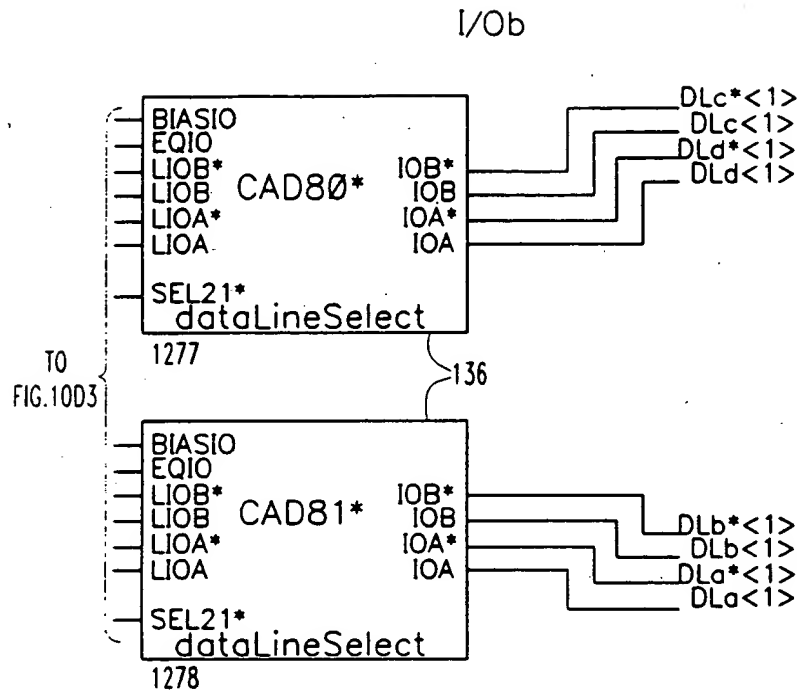


FIG.10D4

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0985217-062001

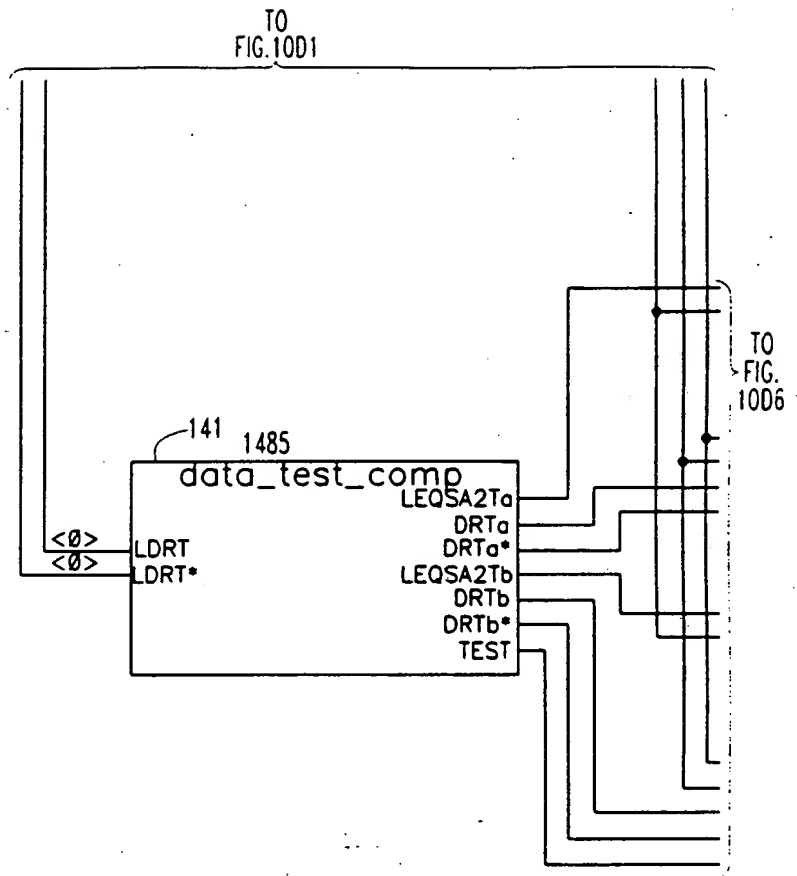


FIG. 10D5

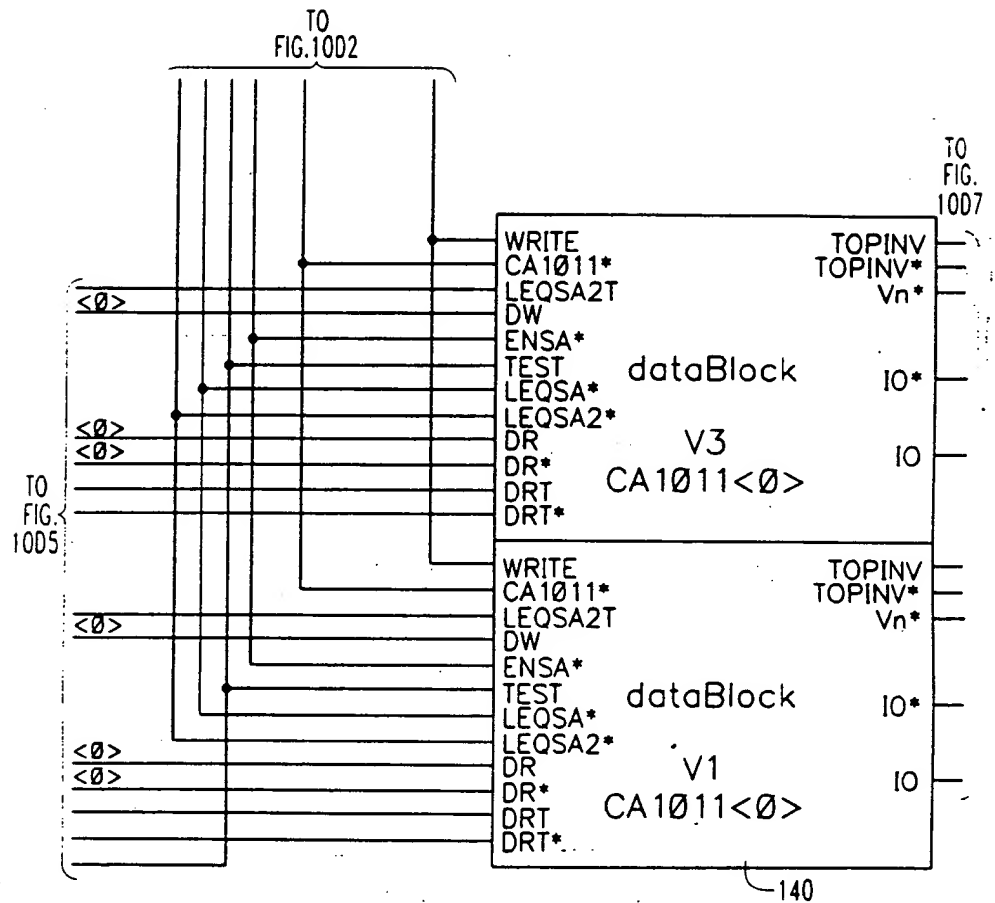


FIG.10D6

100250-71258860

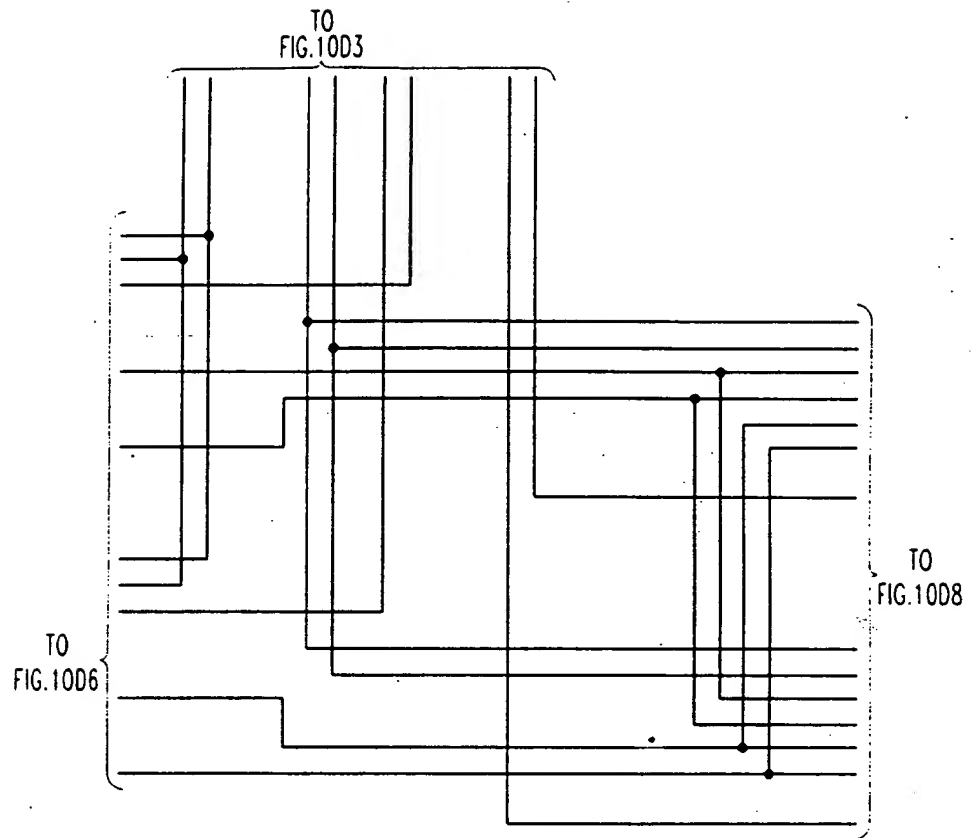


FIG. 10D7

00885217-062001

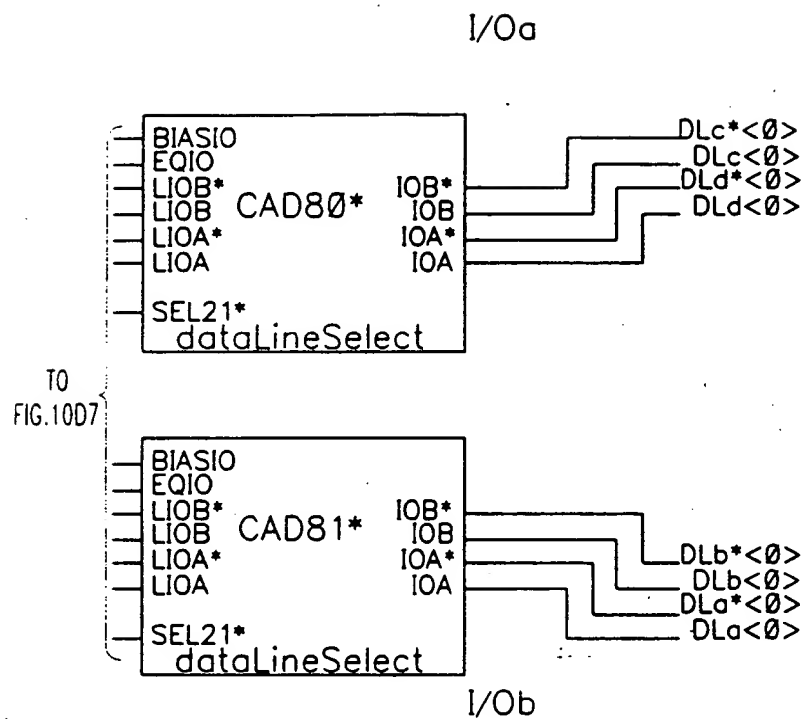
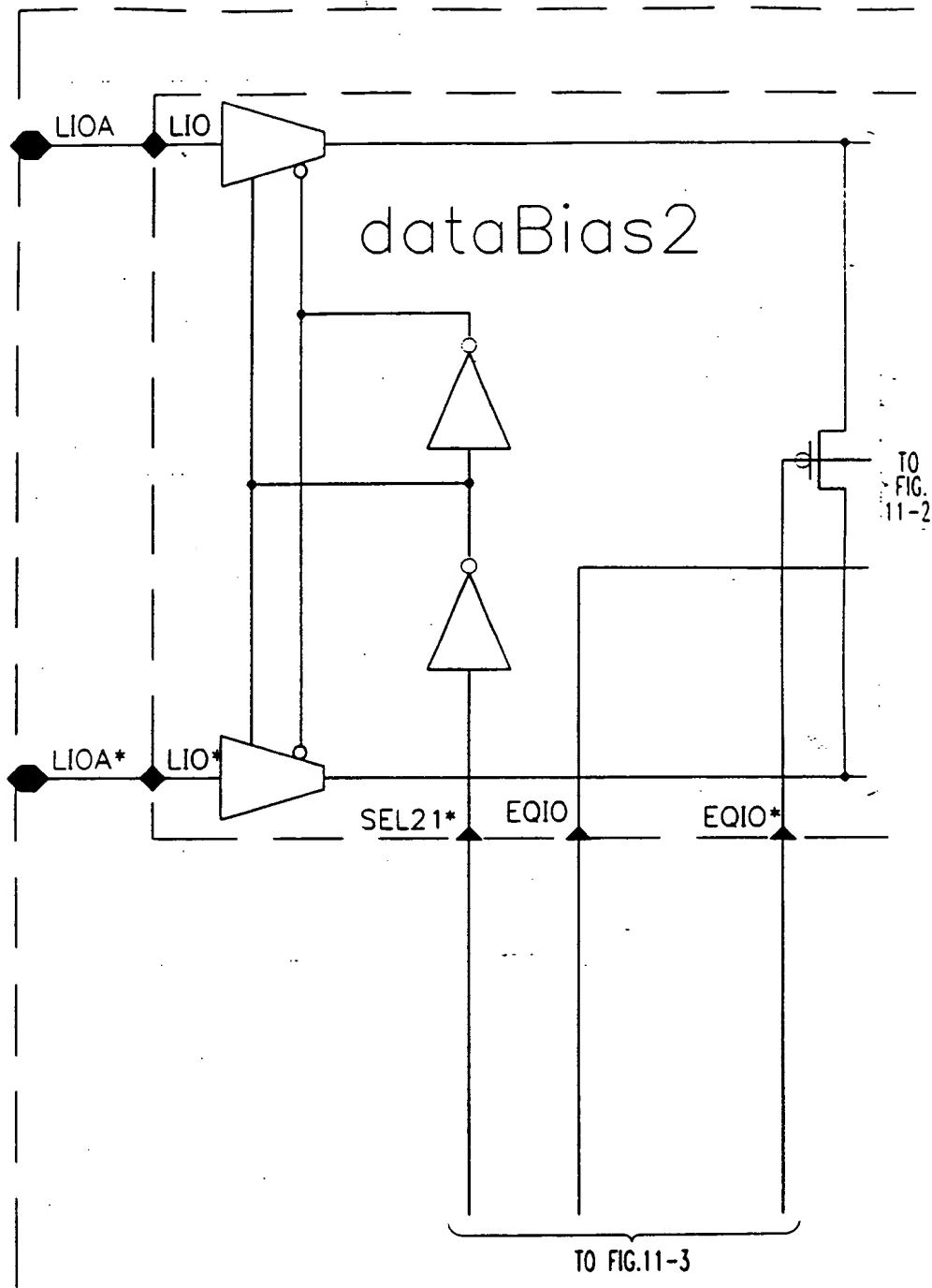


FIG.10D8

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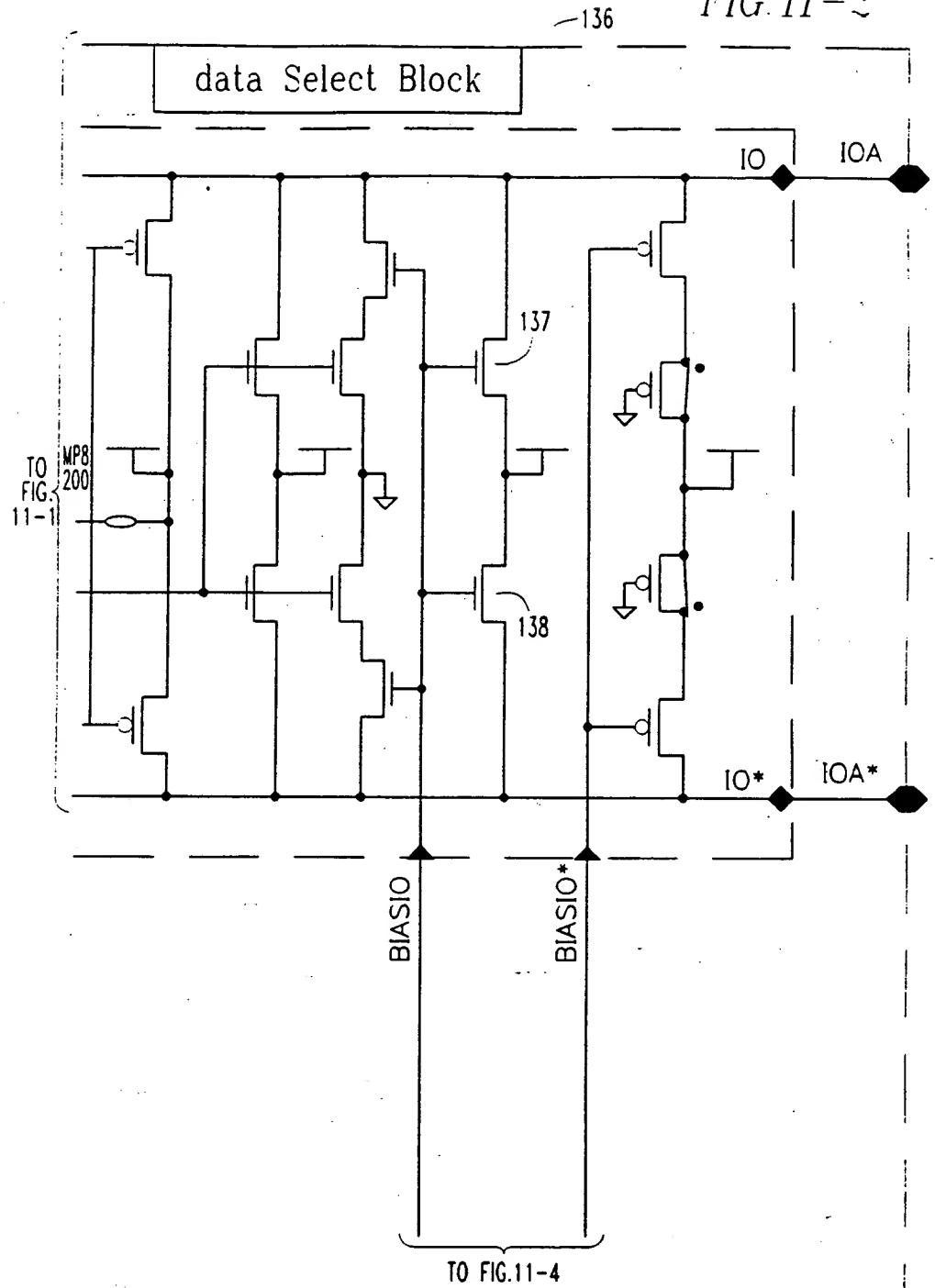
FIG. 11-1



00250-71258860

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FIG. 11-2



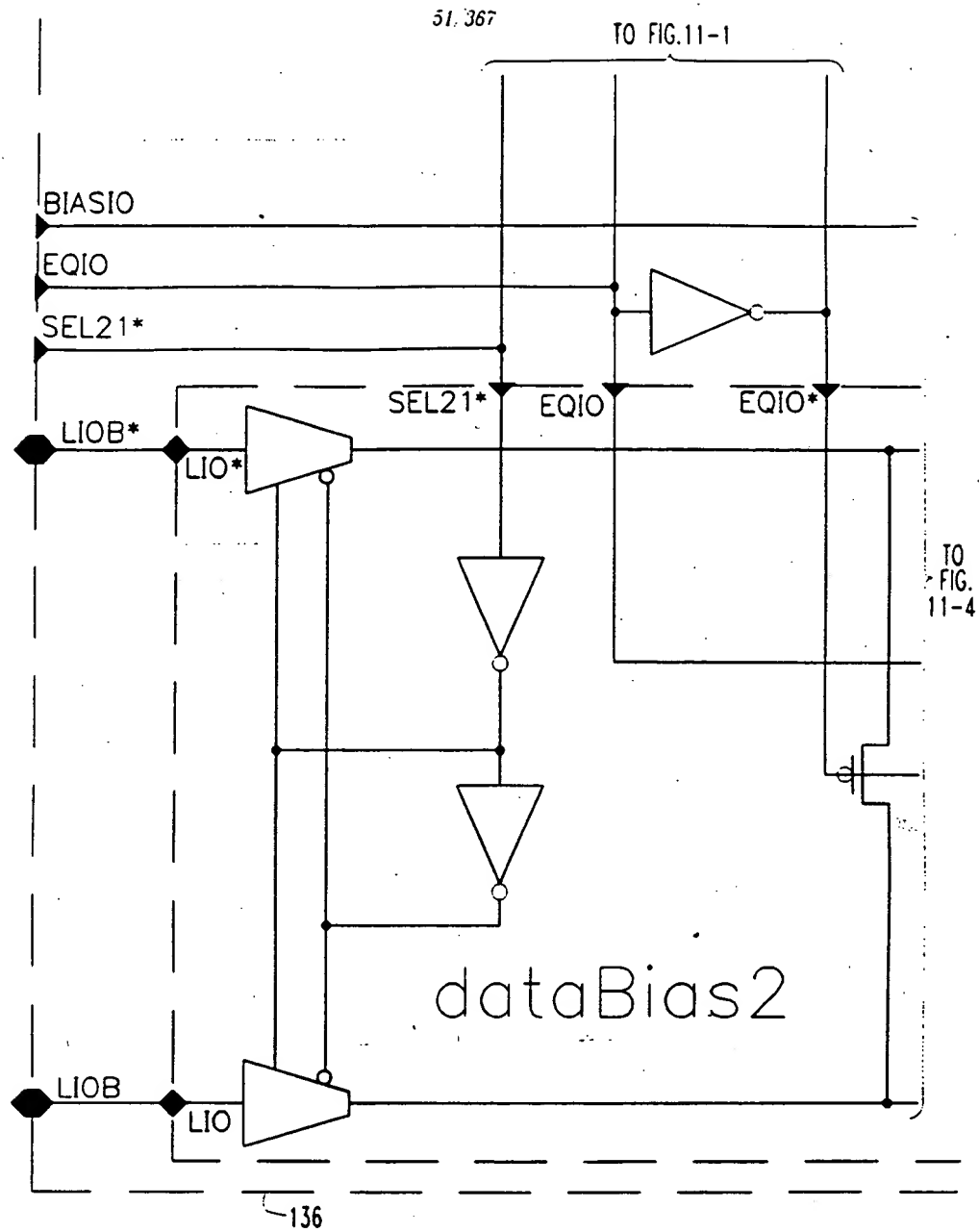


FIG. 11-3

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TO FIG. 11-2

TO FIG. 11-3

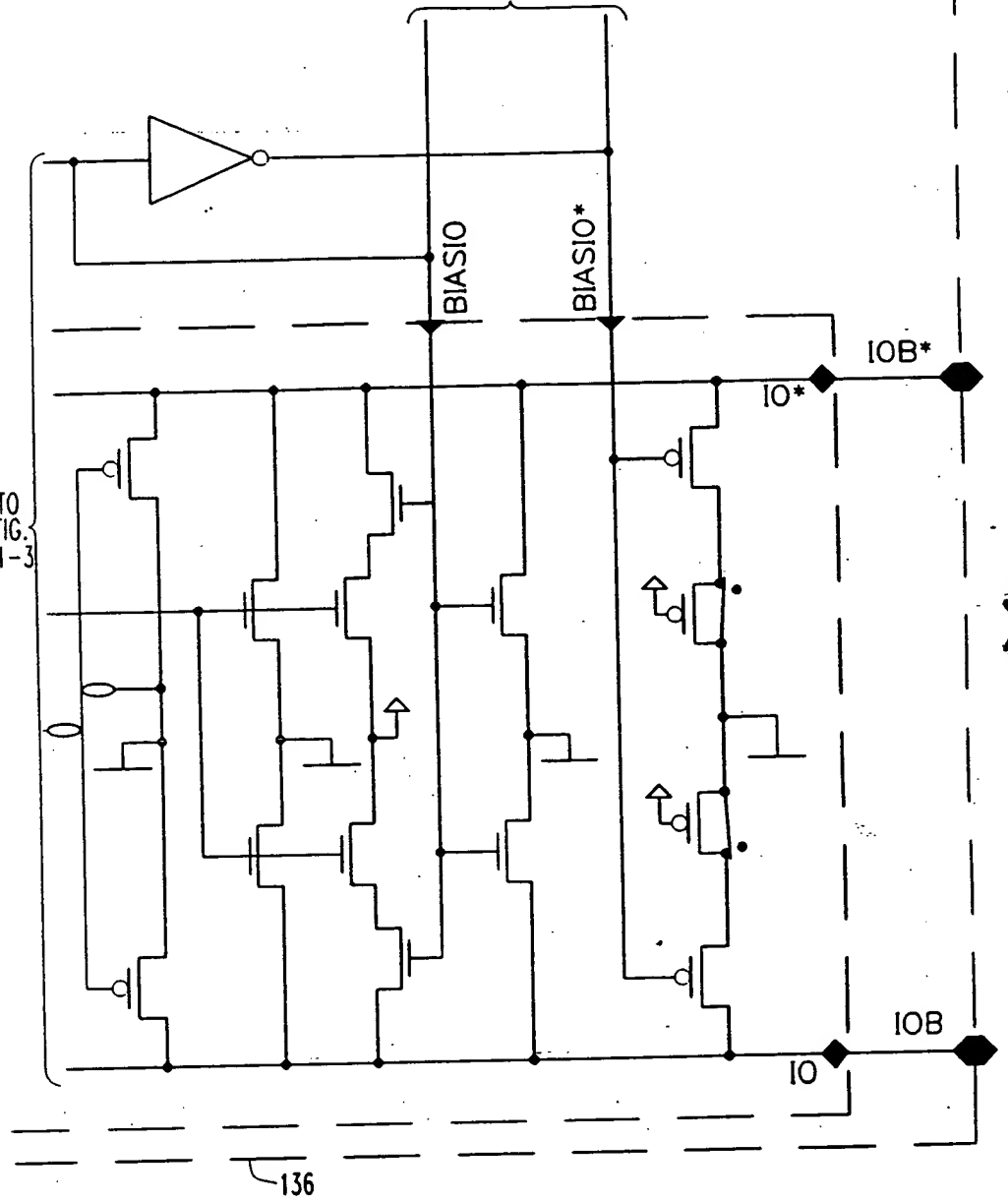
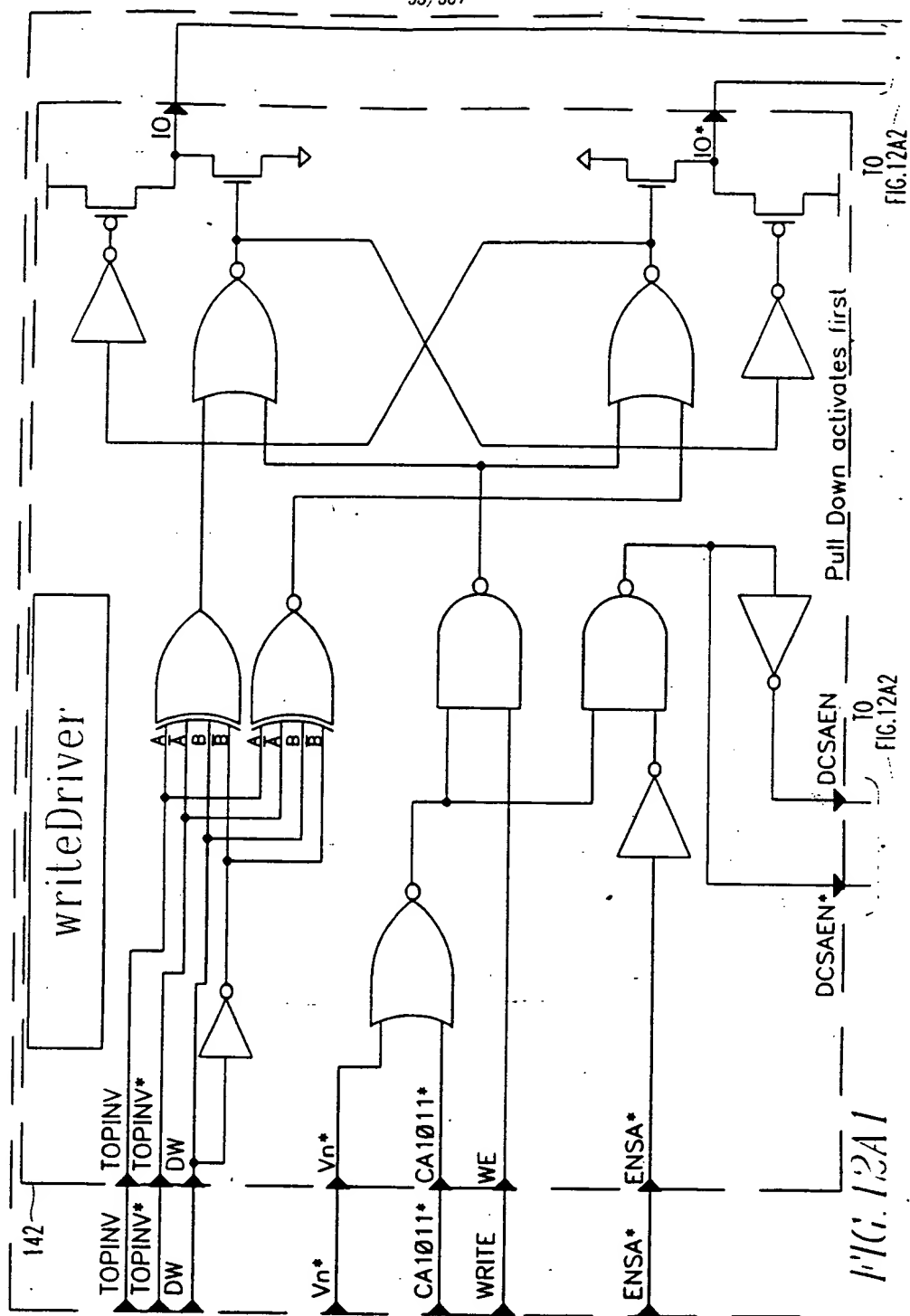


FIG. 11-4

WATERBURY



W.G. BAI

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TO
FIG. 12A1

TO
FIG. 12A1

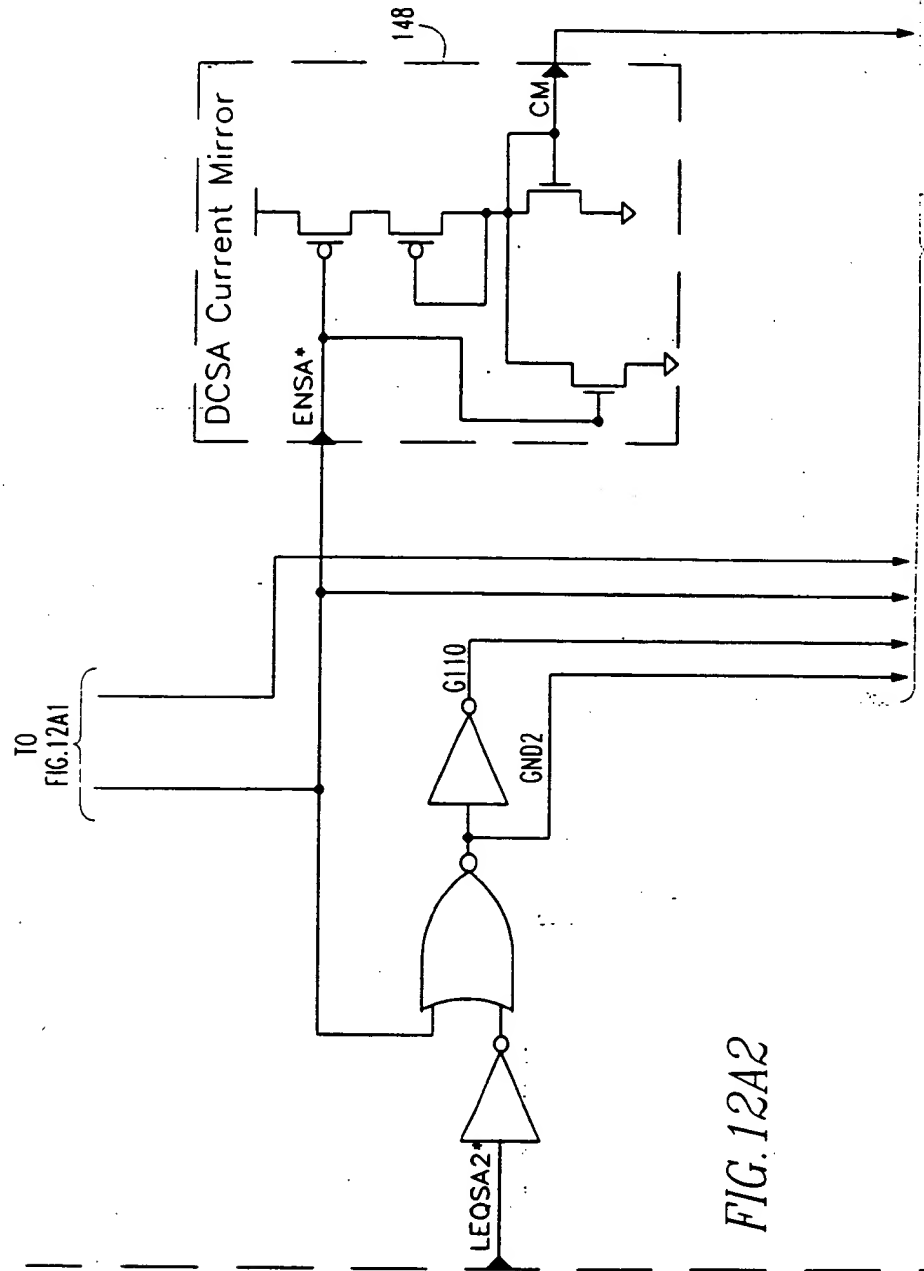


FIG. 12A2

100290-1258860

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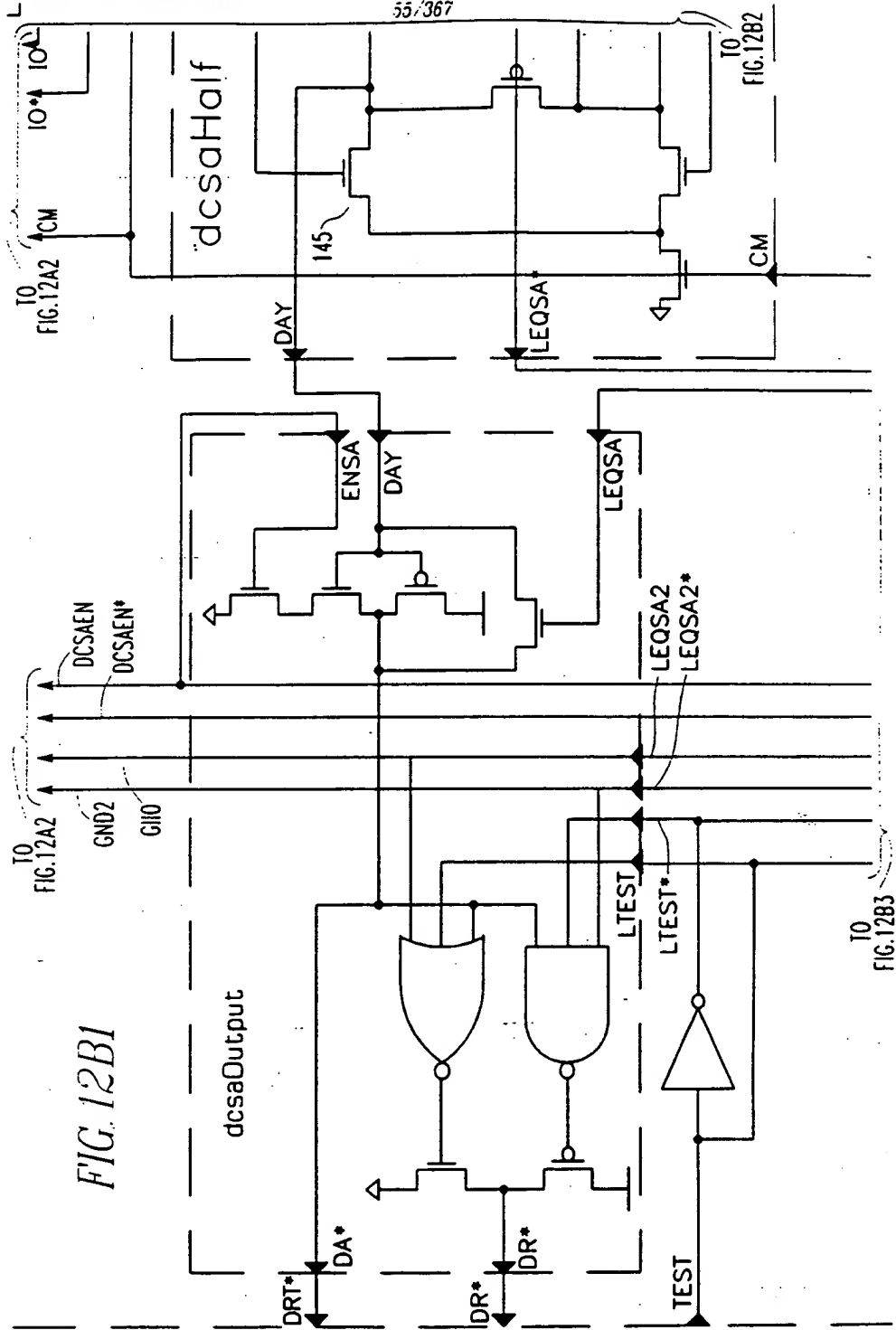


FIG. 12B1

dcsaOutput

FIG. 12A2

GND2

GND1

FIG. 12A2

CM

10

10

10

10

10

10

10

FIG. 12B2

10

CM

10

10

FIG. 12B3

10

LTEST*

LTEST

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

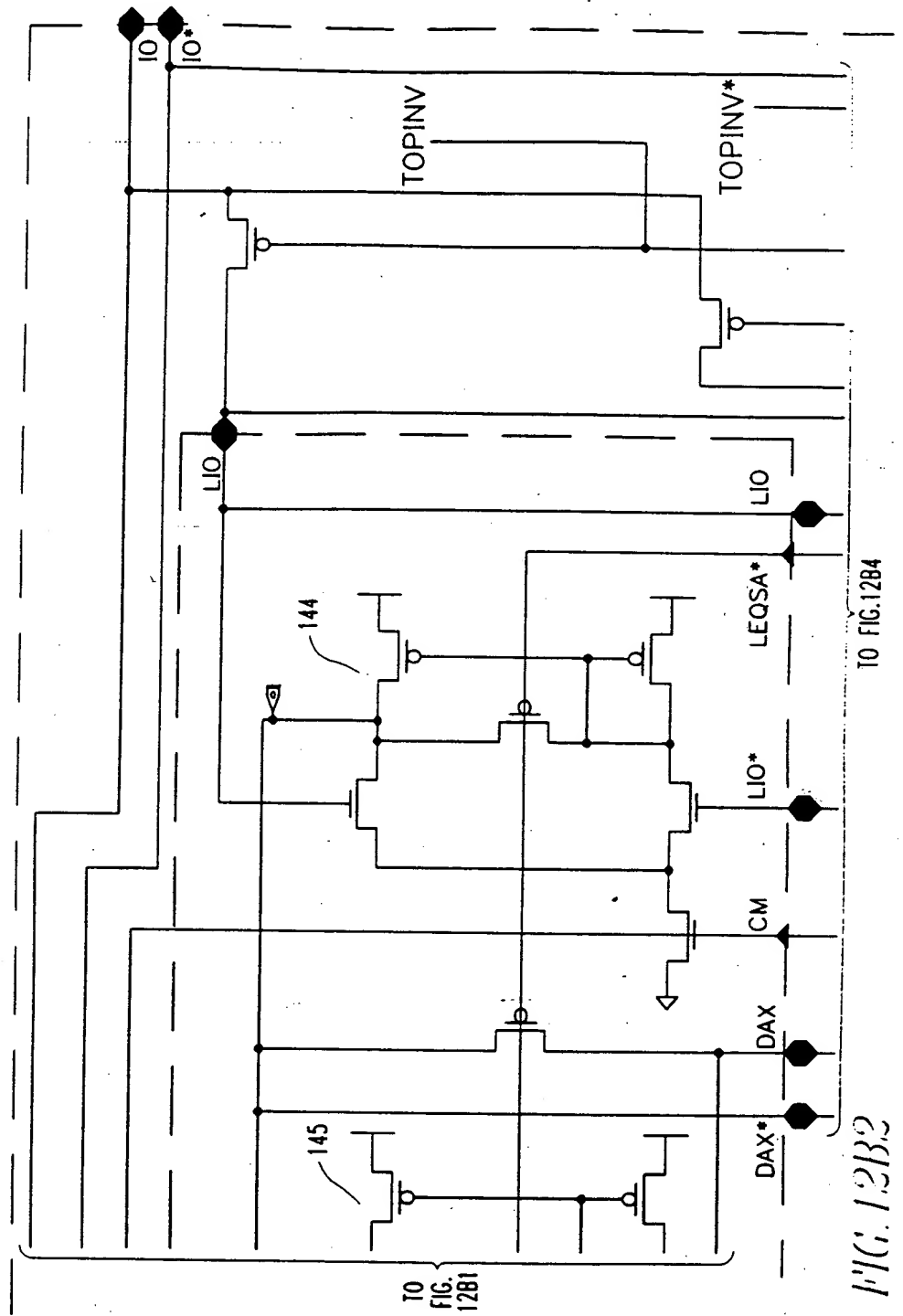
10

10

10

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0985517-060001
100290-1258860

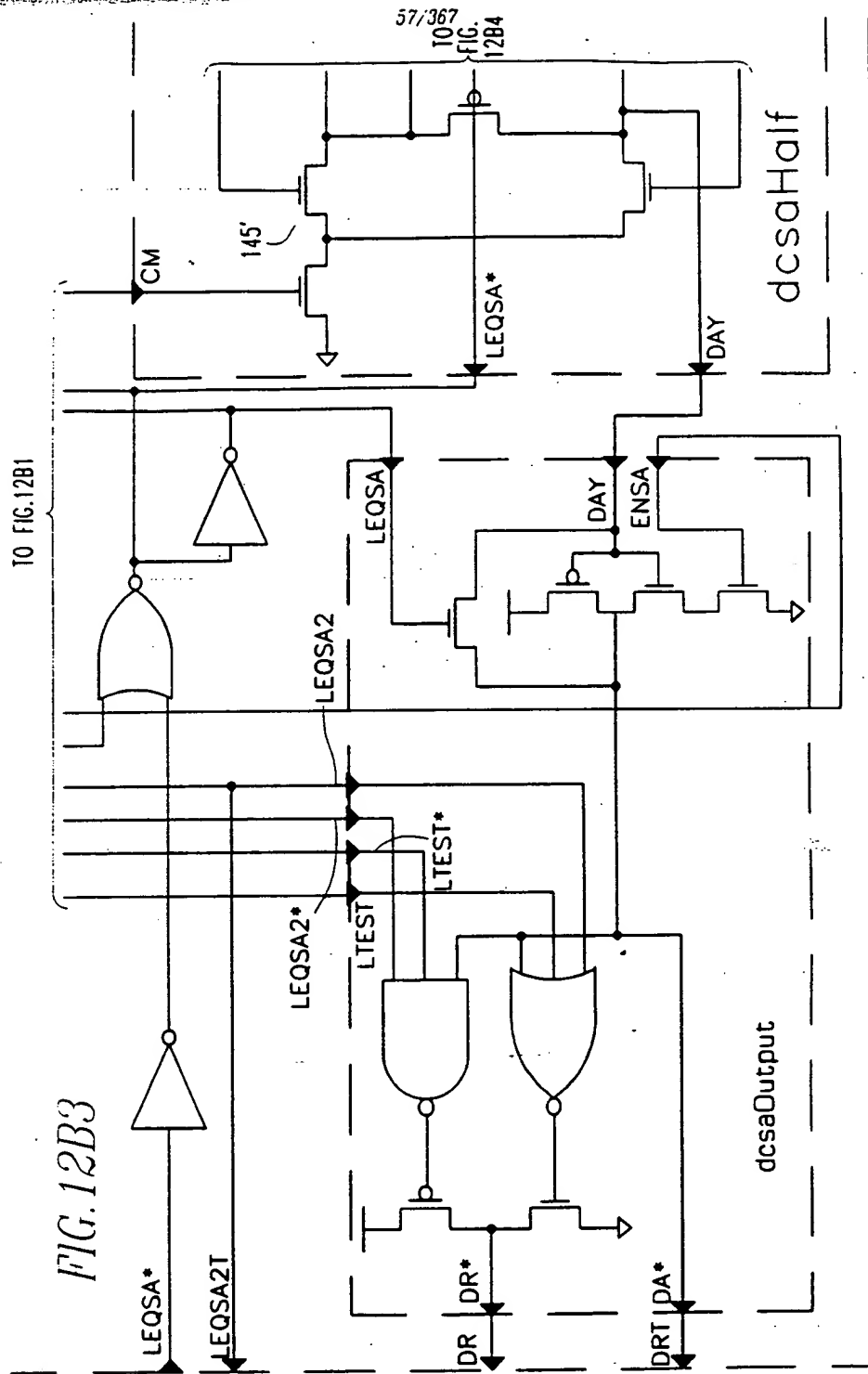


TO FIG. 12B4

FIG. 12B2

100290-1258860

100290-1258860

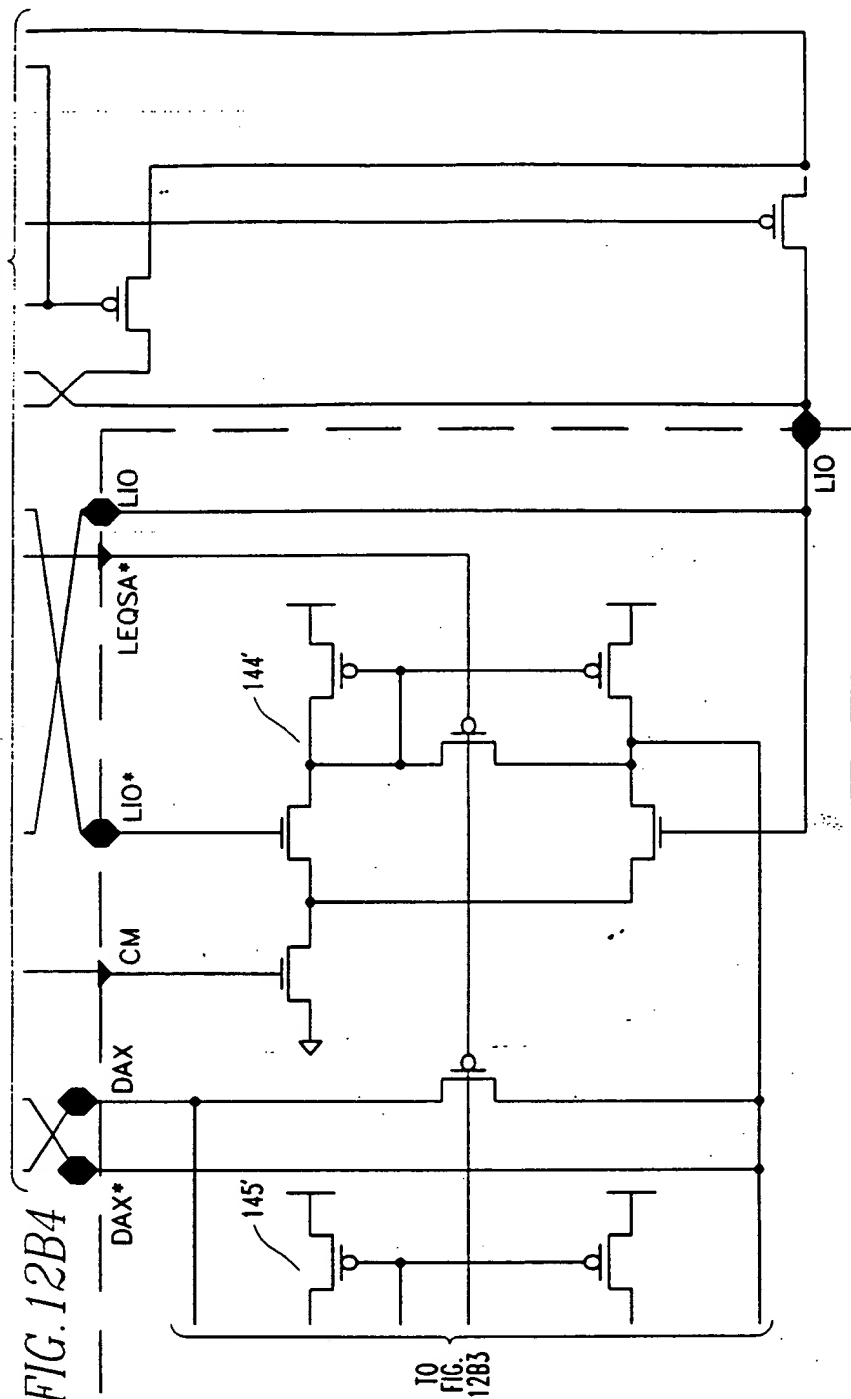


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100290-21258860

TO FIG. 12B3

FIG. 12B4



TO FIG. 12B3

100290* 71258860

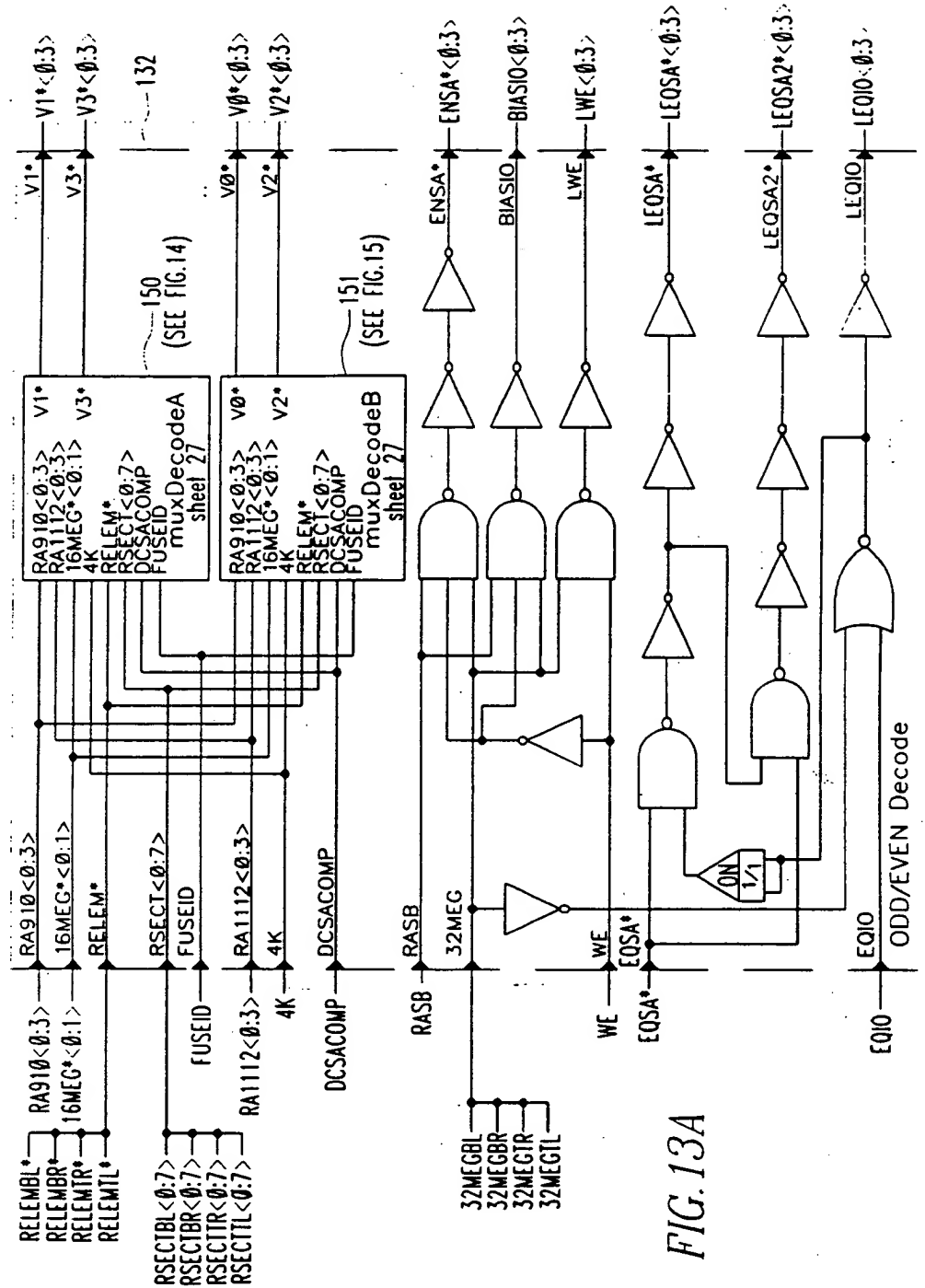


FIG. 13A

100290* 71258860

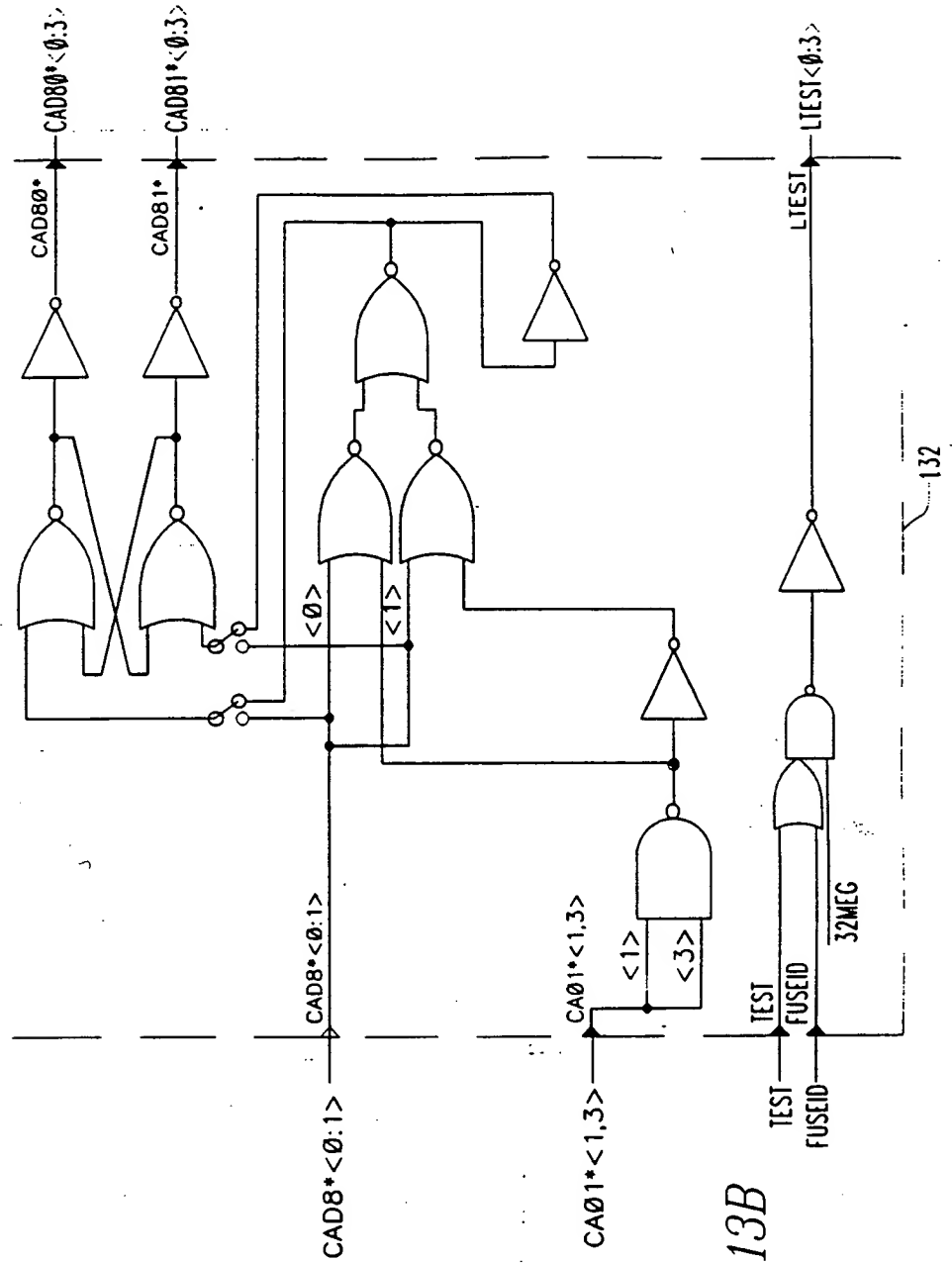


FIG. 13B



100290-125860

FIG. 15-1

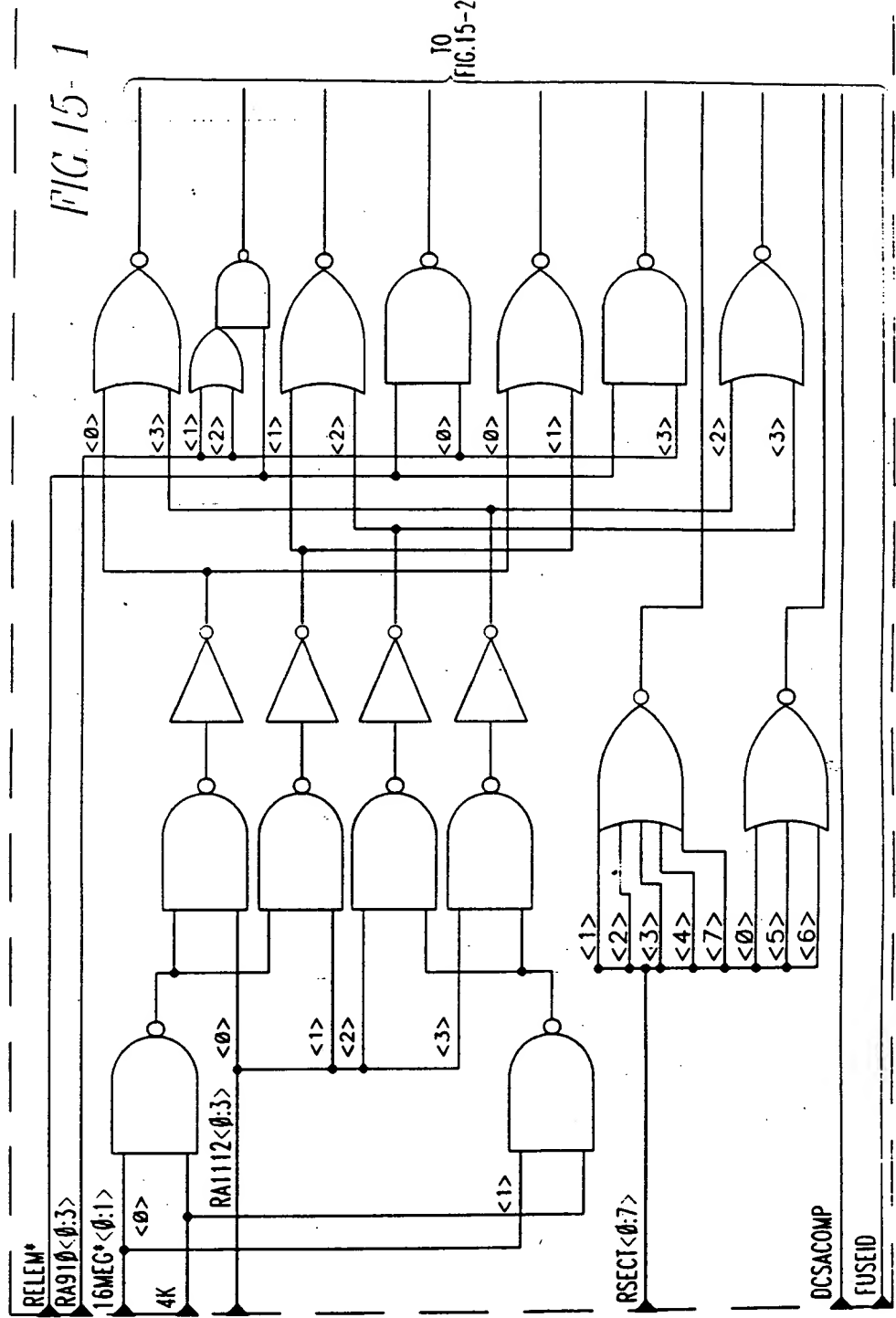
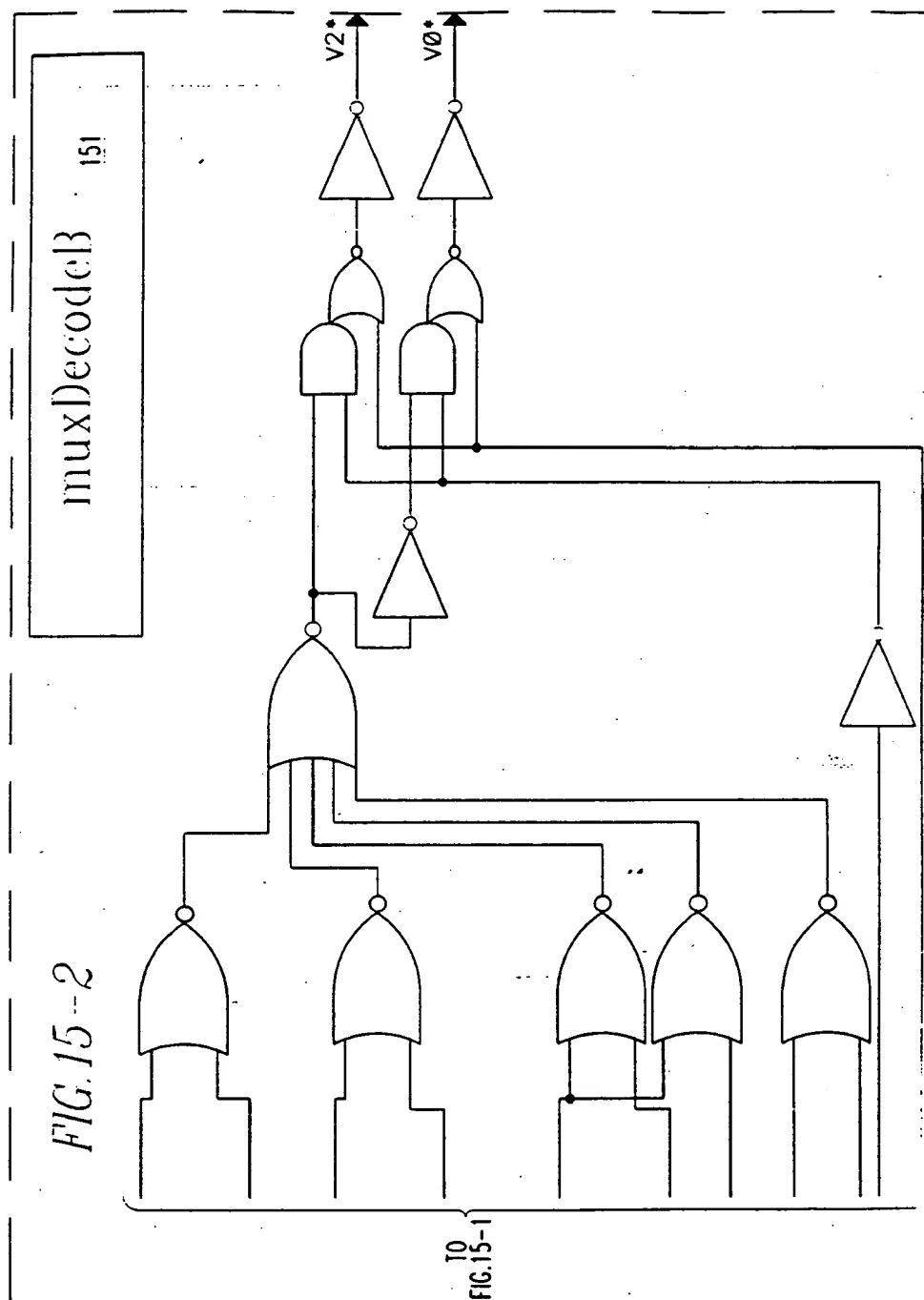


FIG. 15-2

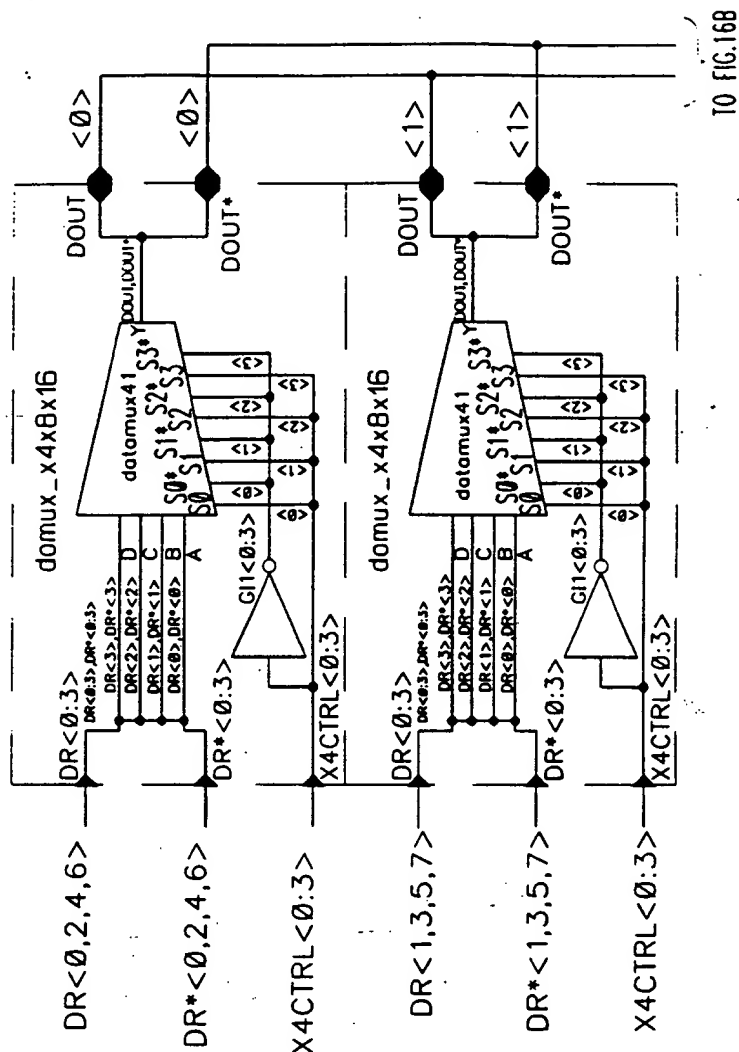
05865-17-66201

FIG. 15--2



100290*21258860

FIG. 16A



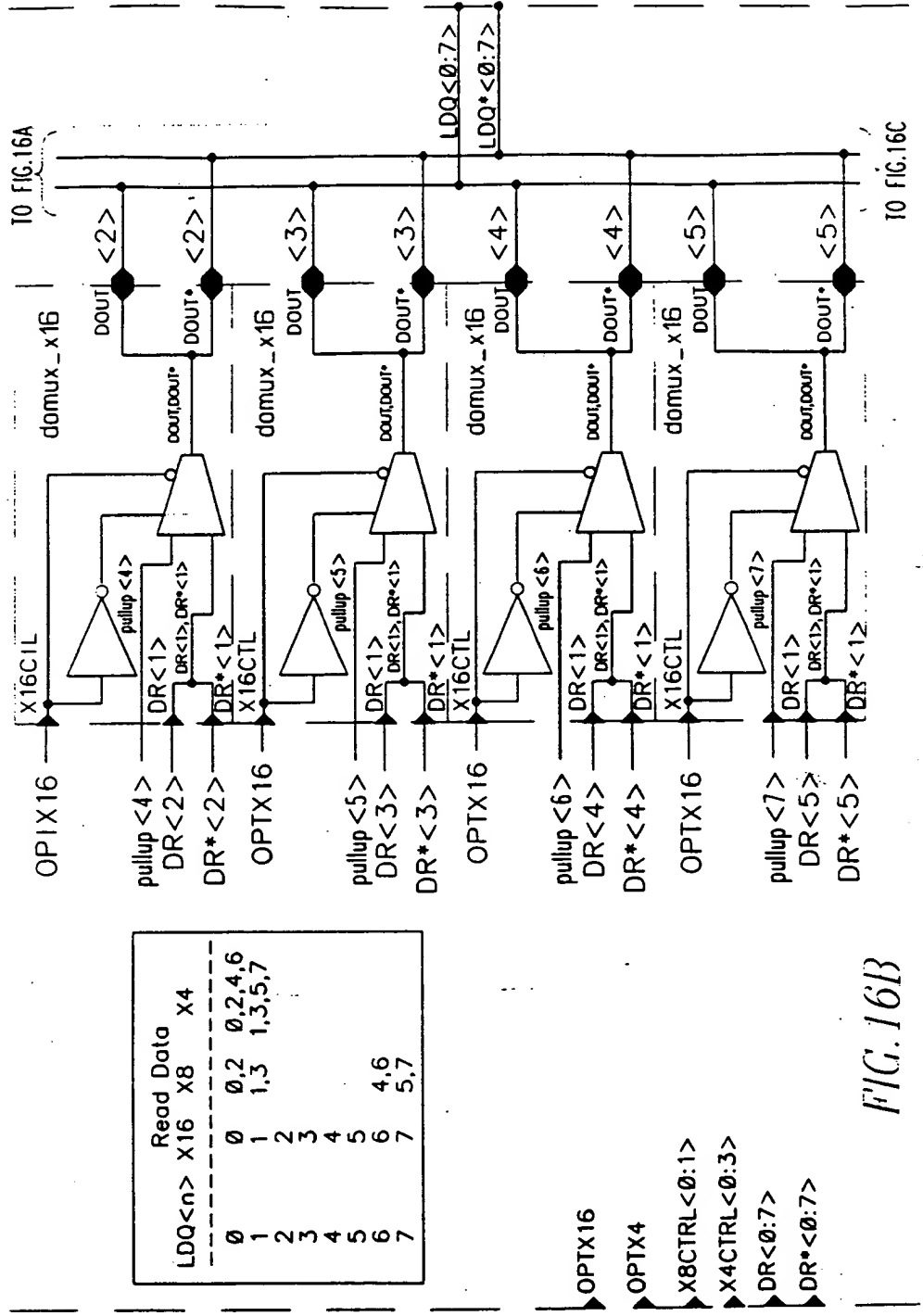
TO FIG. 16B

100290*21258860

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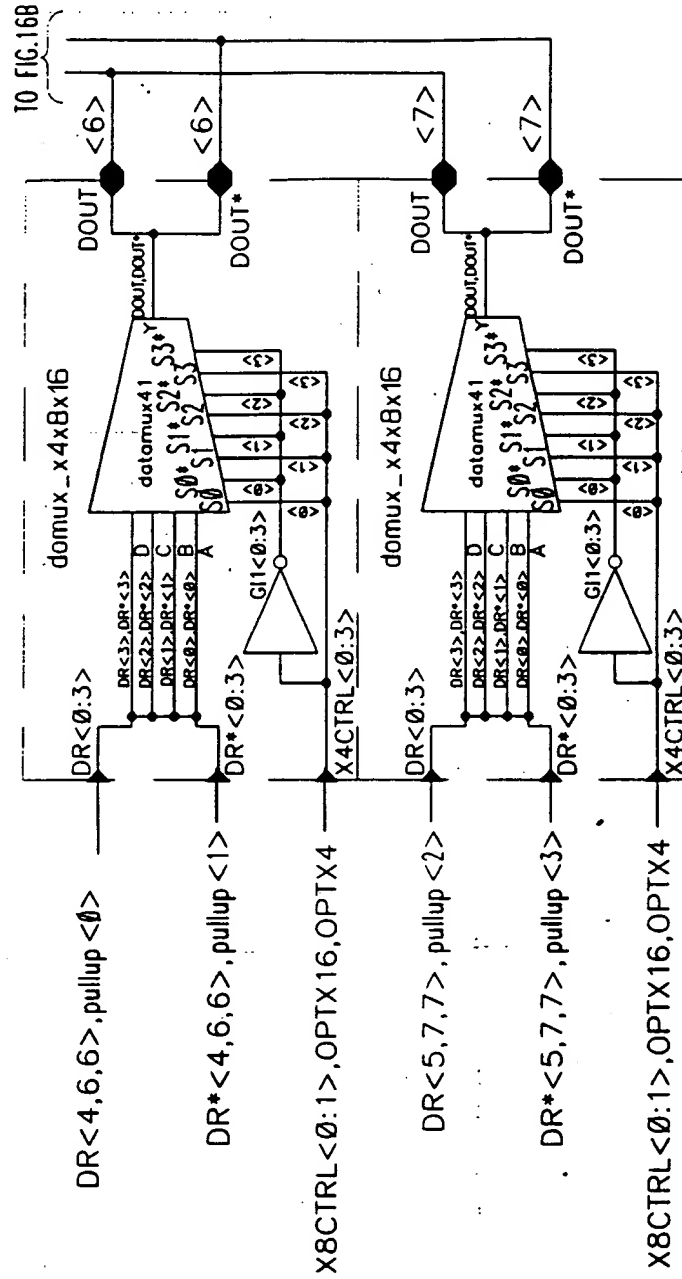


Read Data	
LDQ<n>	X16 X8 X4
0	0 0,2 0,2,4,6
1	1 1,3 1,3,5,7
2	2
3	3
4	4
5	5
6	4,6
7	5,7

- OPTX16
- OPTX4
- X8CTRL<0:1>
- X4CTRL<0:3>
- DR<0:7>
- DR*<0:7>

FIG. 16B

100290-1258860



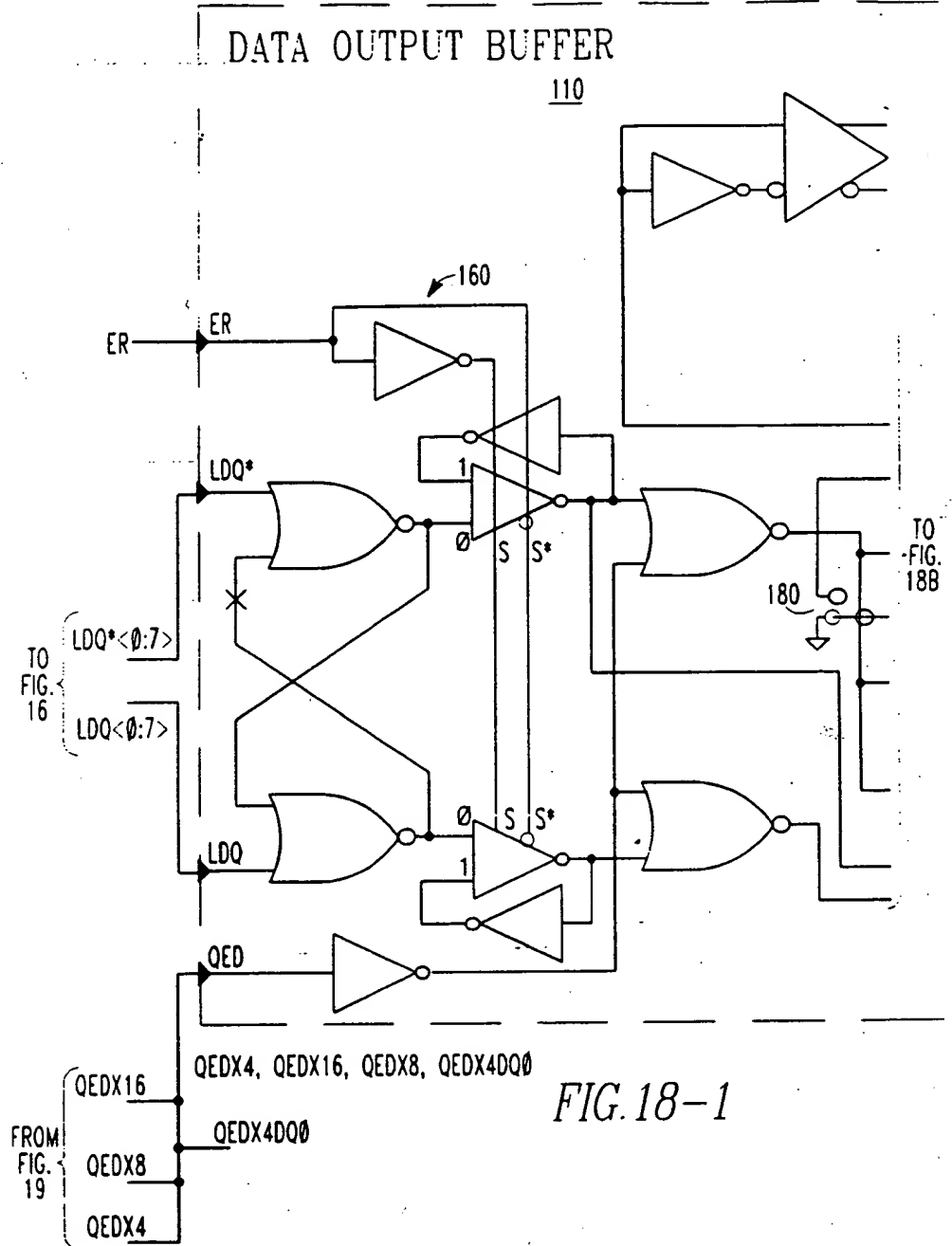
dataReadMux

FIG. 16C

SECRET



09885217-062001



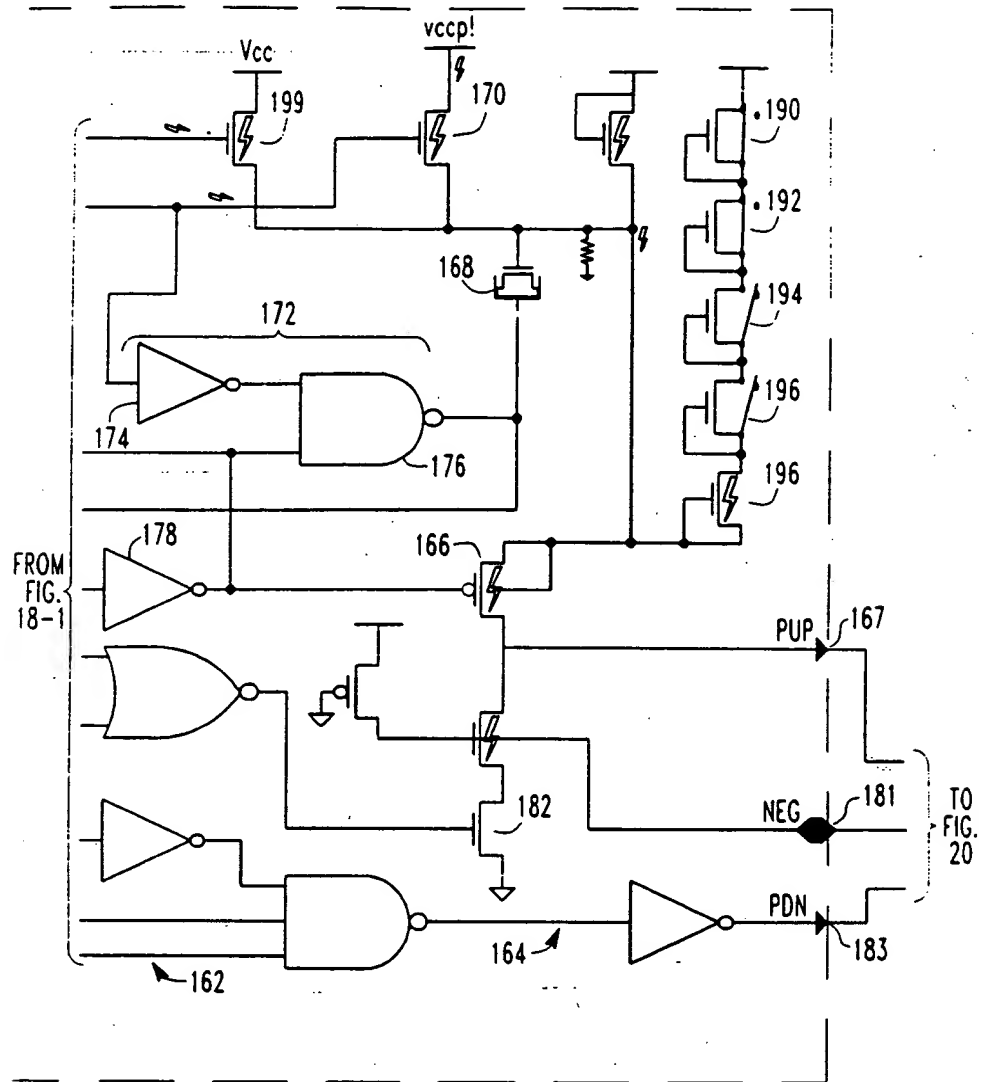


FIG. 18-2

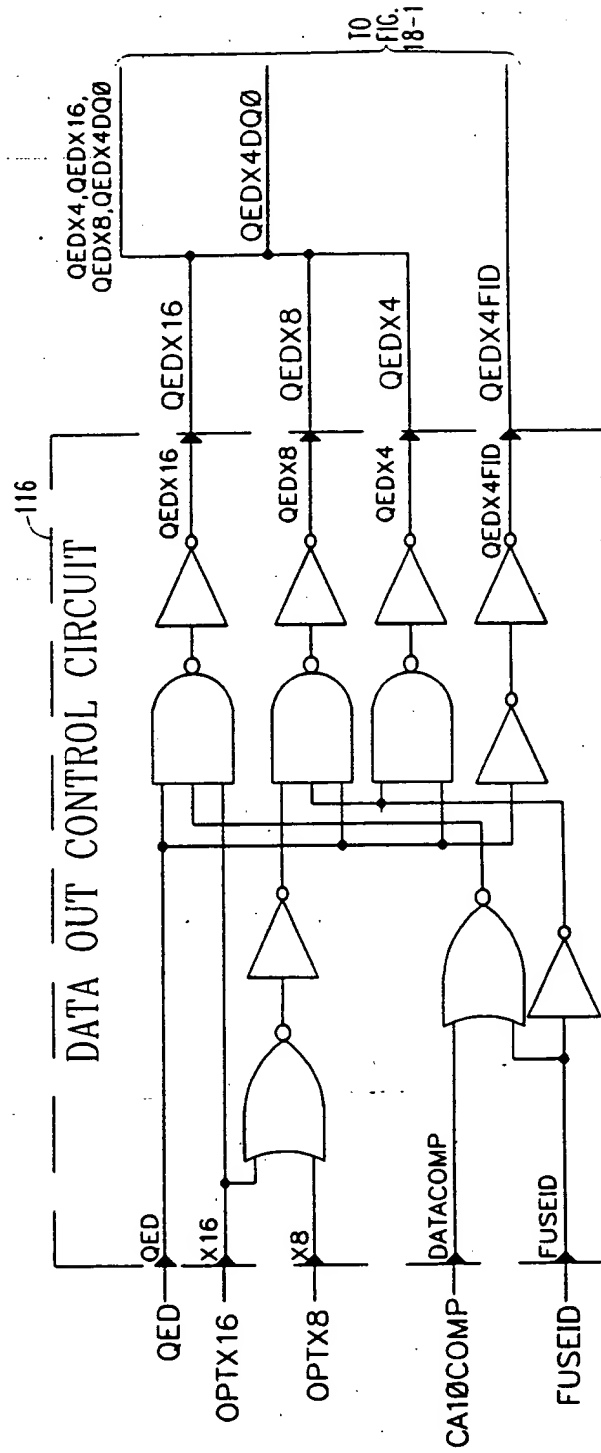


FIG. 19

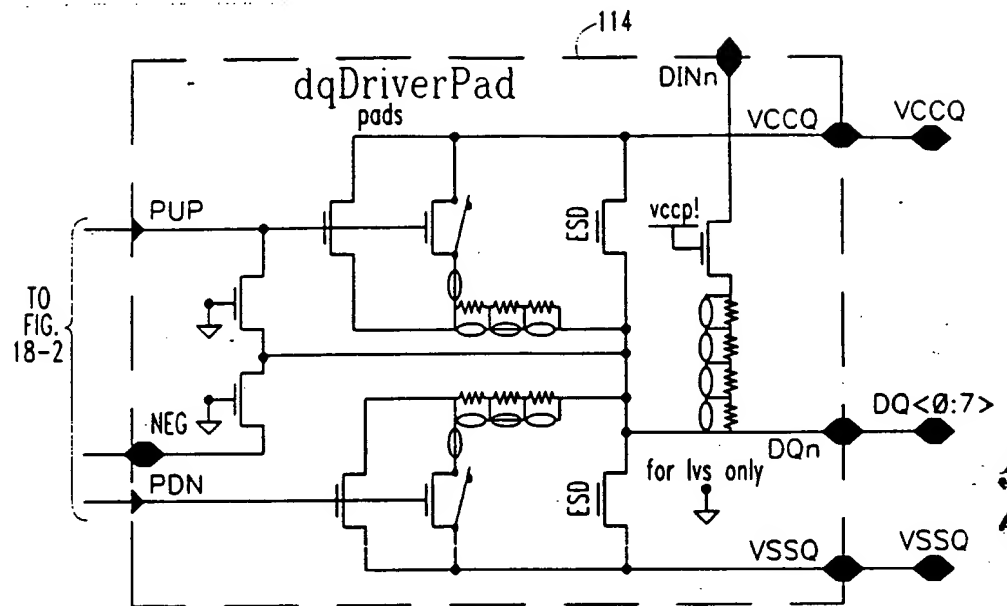


FIG. 20

0985217:062001

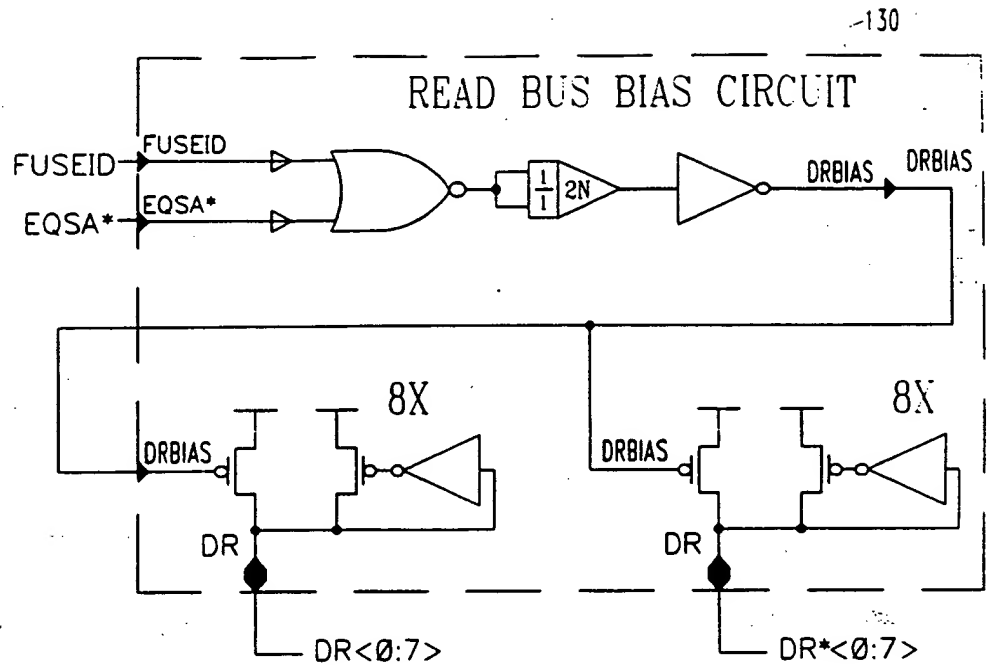
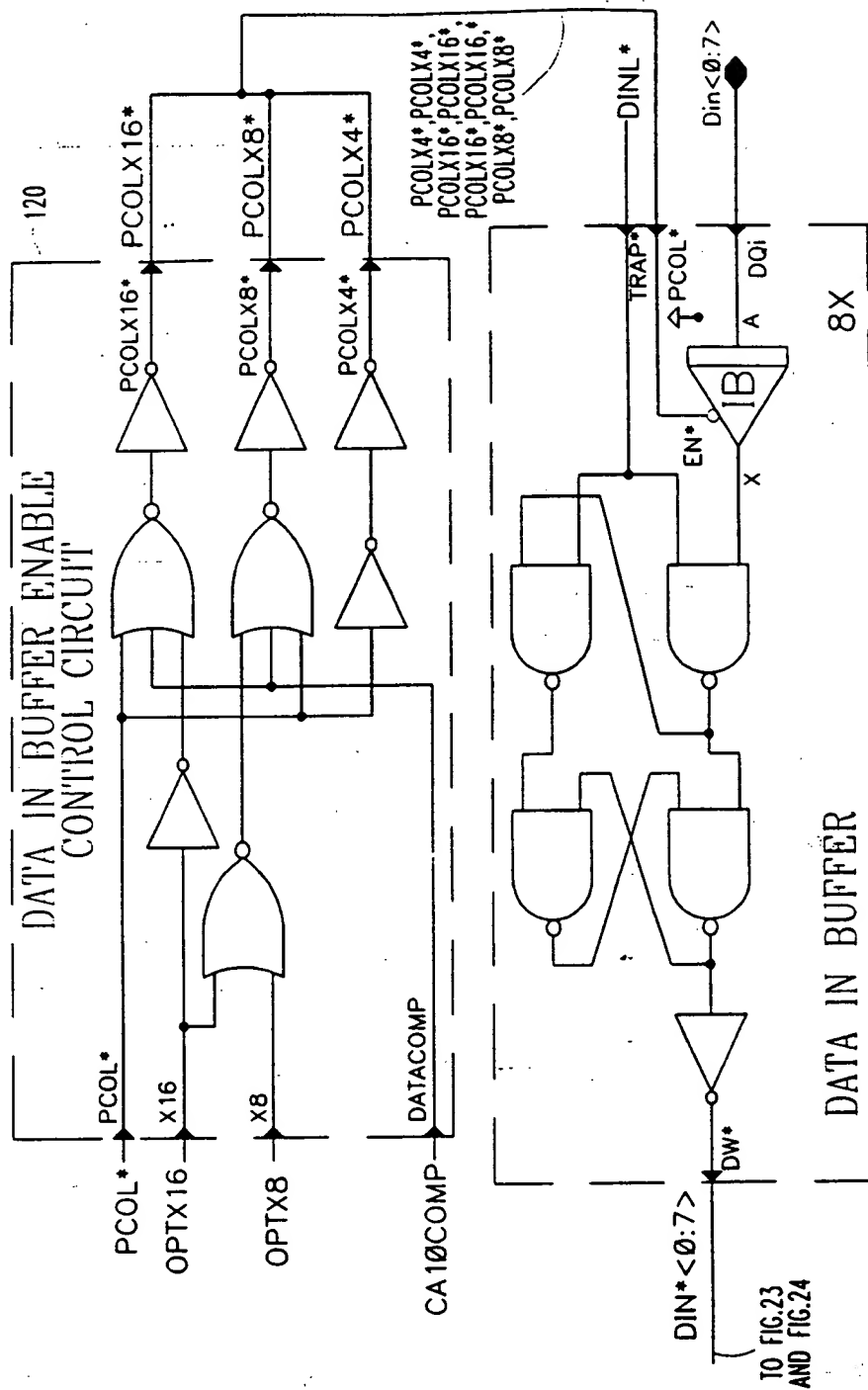


FIG. 21

УДК 62-50:62-50:62-50



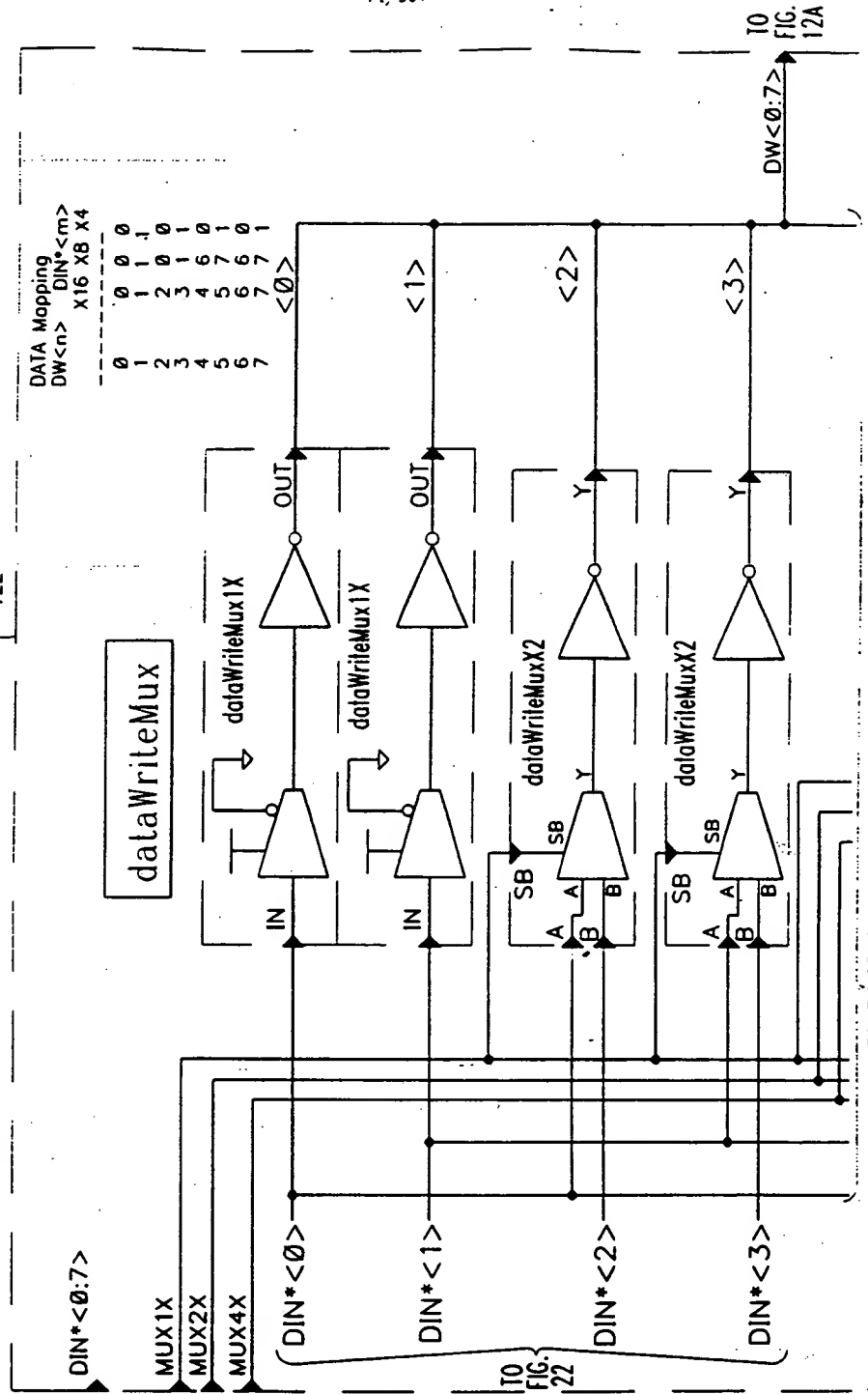
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FIG. 23-1

122



TO FIG. 23-2

12A

100290-1258860

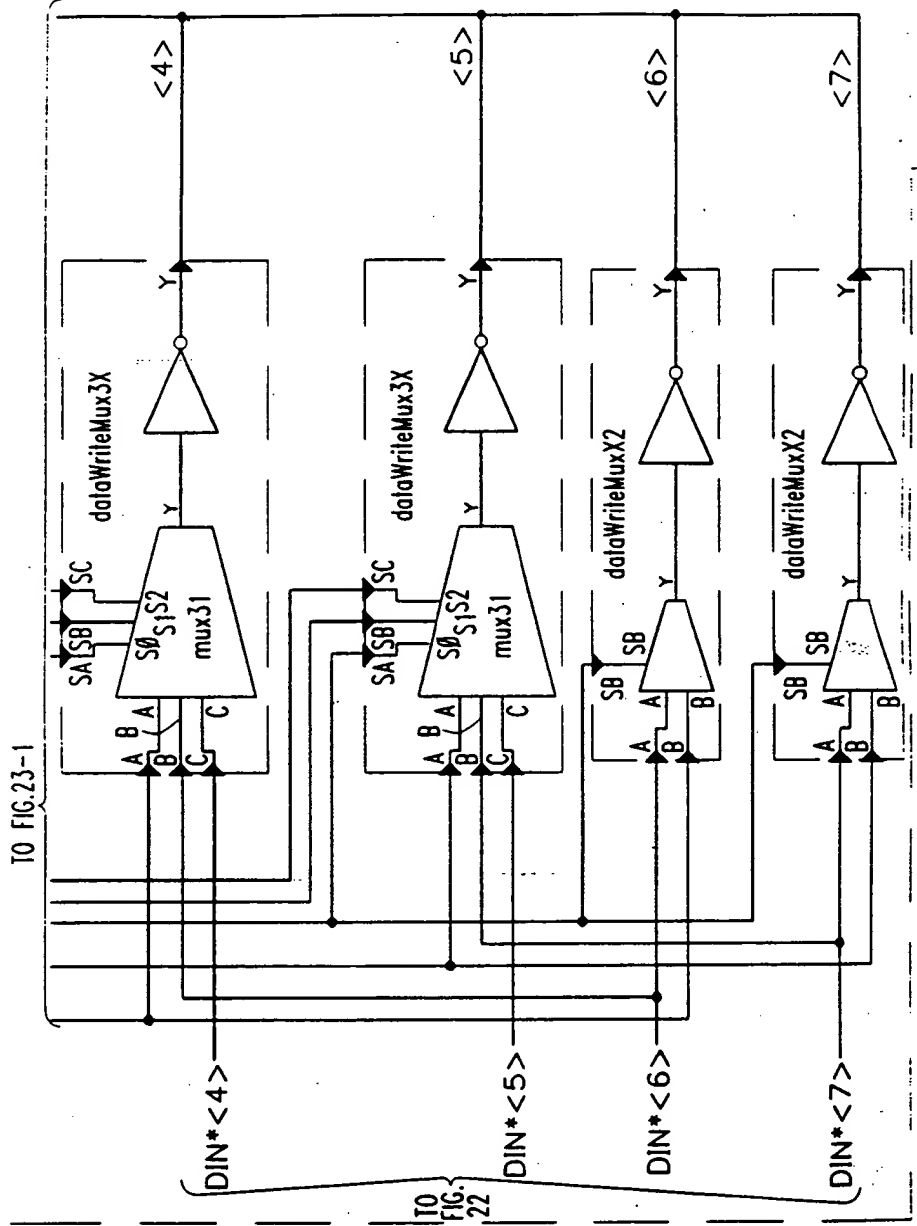


FIG. 23-2

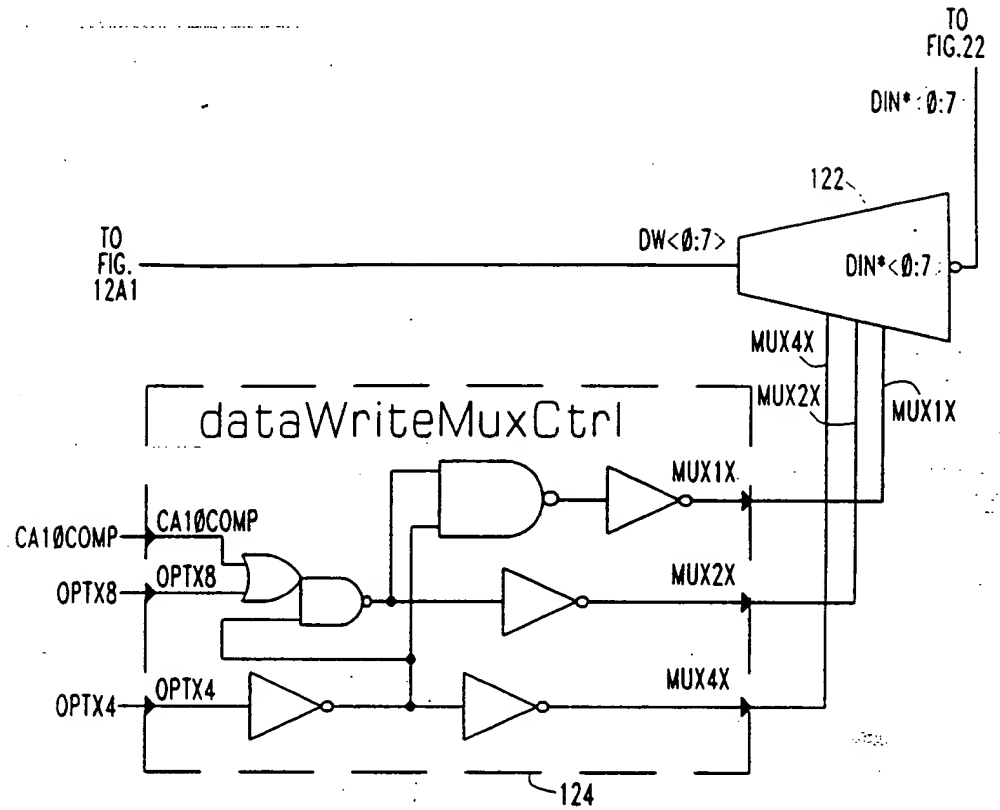


FIG. 24

11
FO029b* 21258860

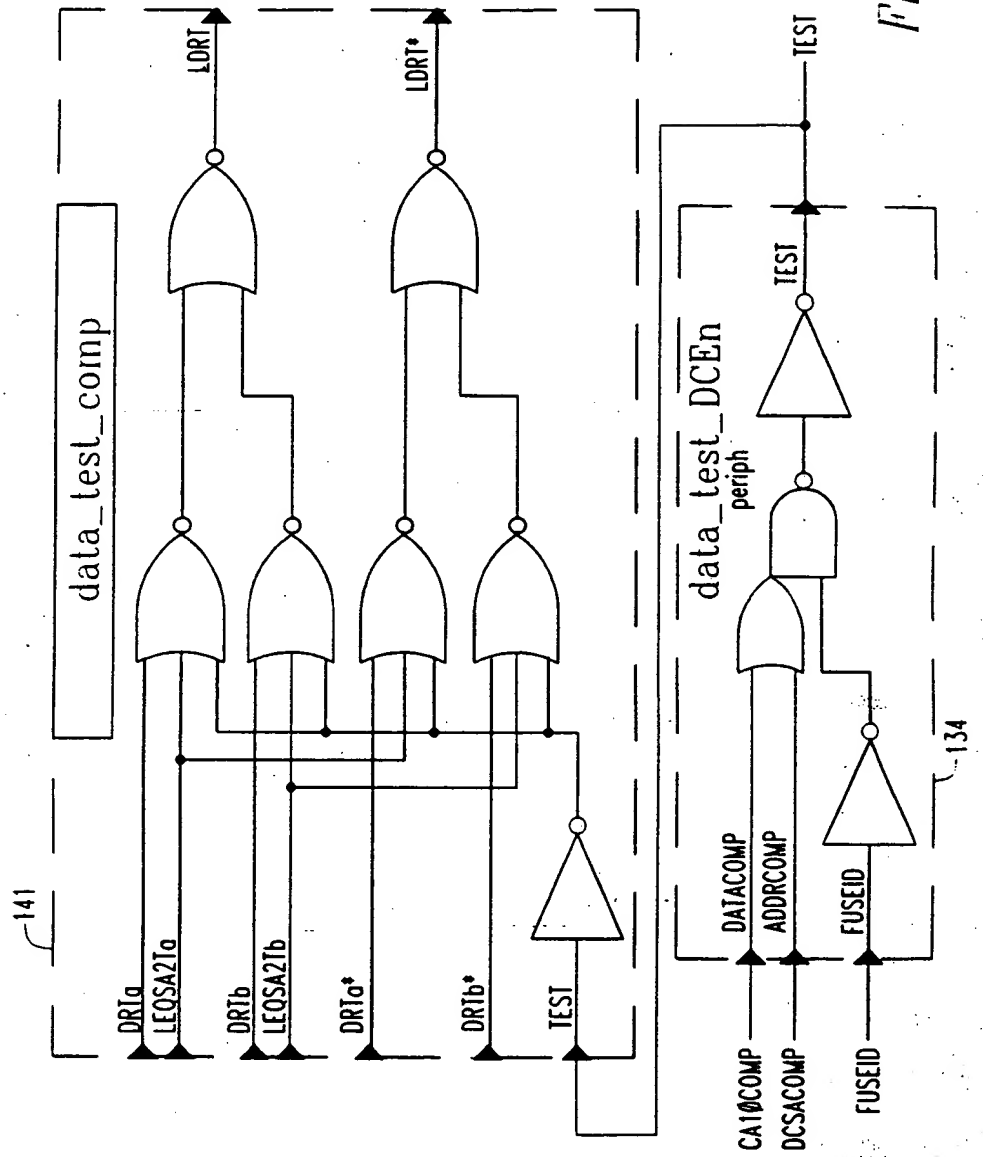
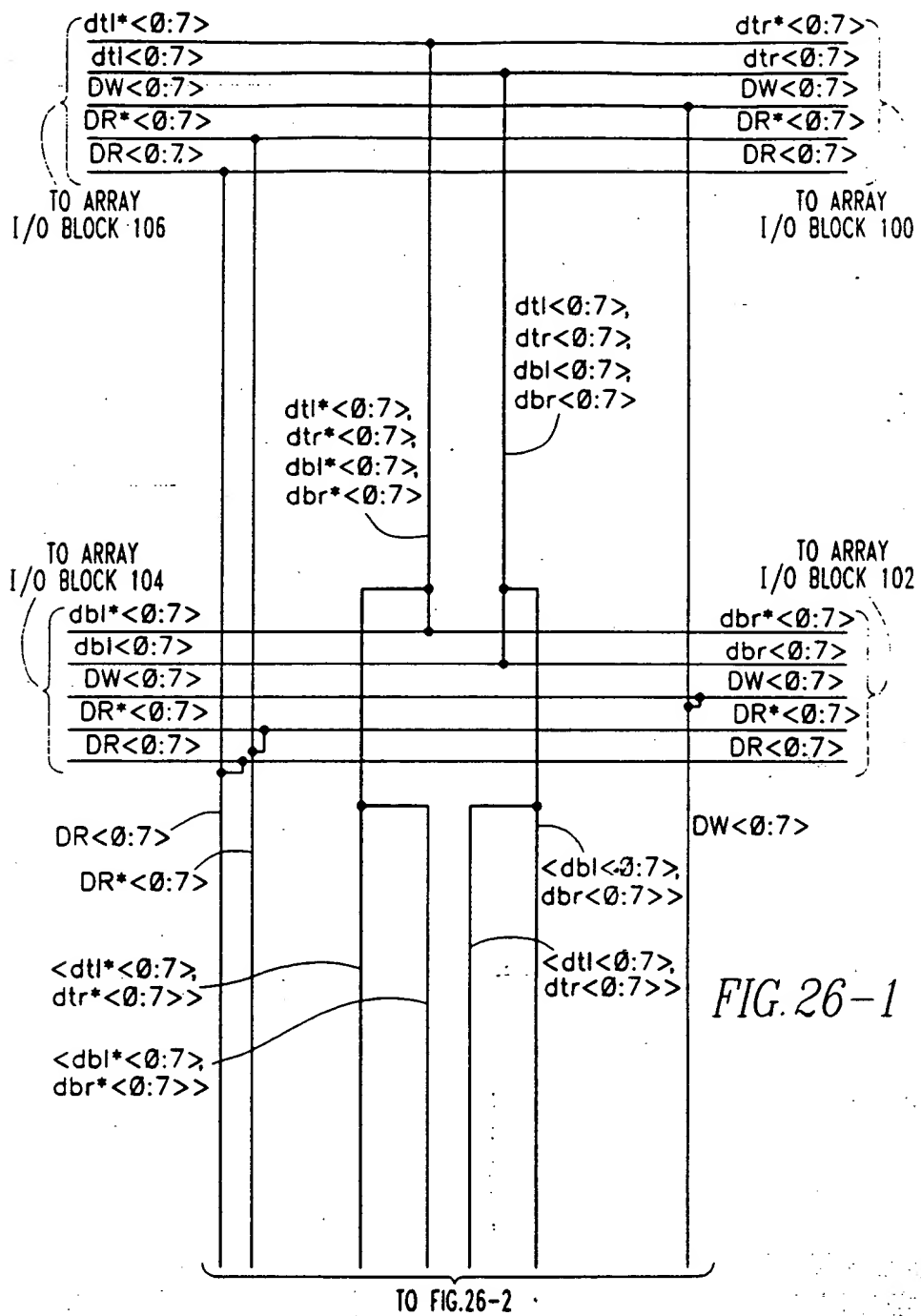


FIG. 25



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FROM FIG. 26-1

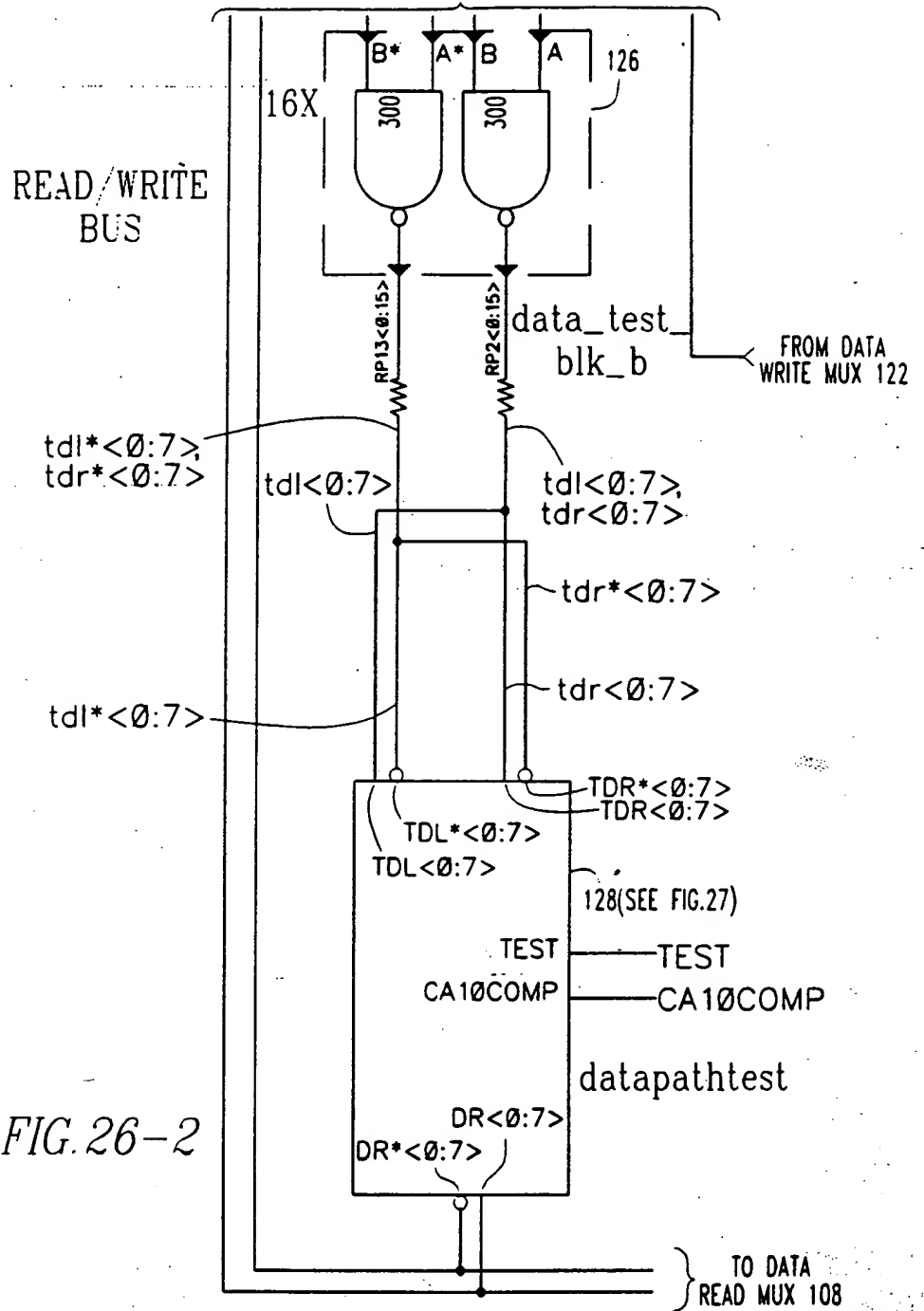
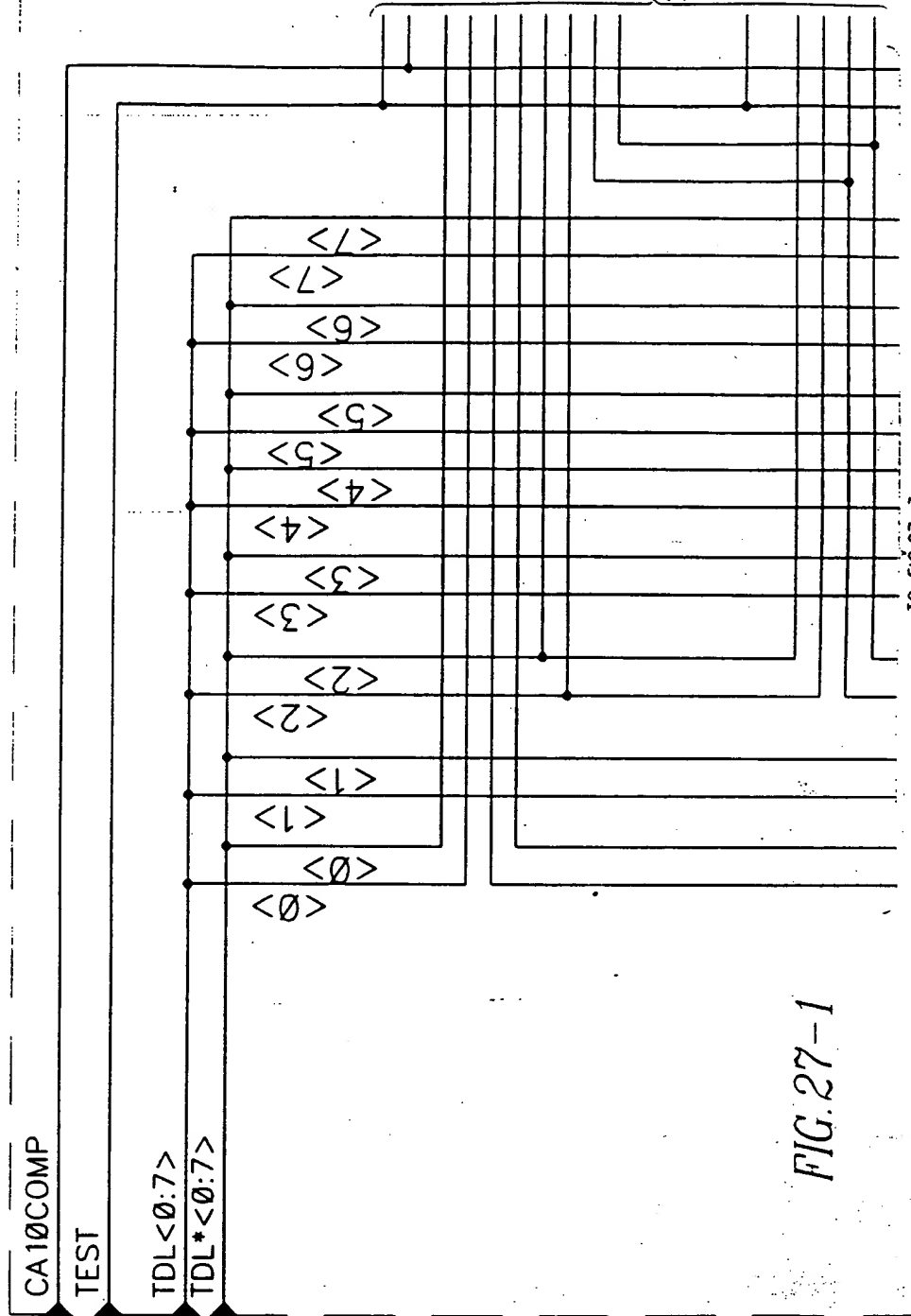


FIG. 26-2

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TO
FIG. 27-2

11
100290-1258860



TO FIG. 27-3

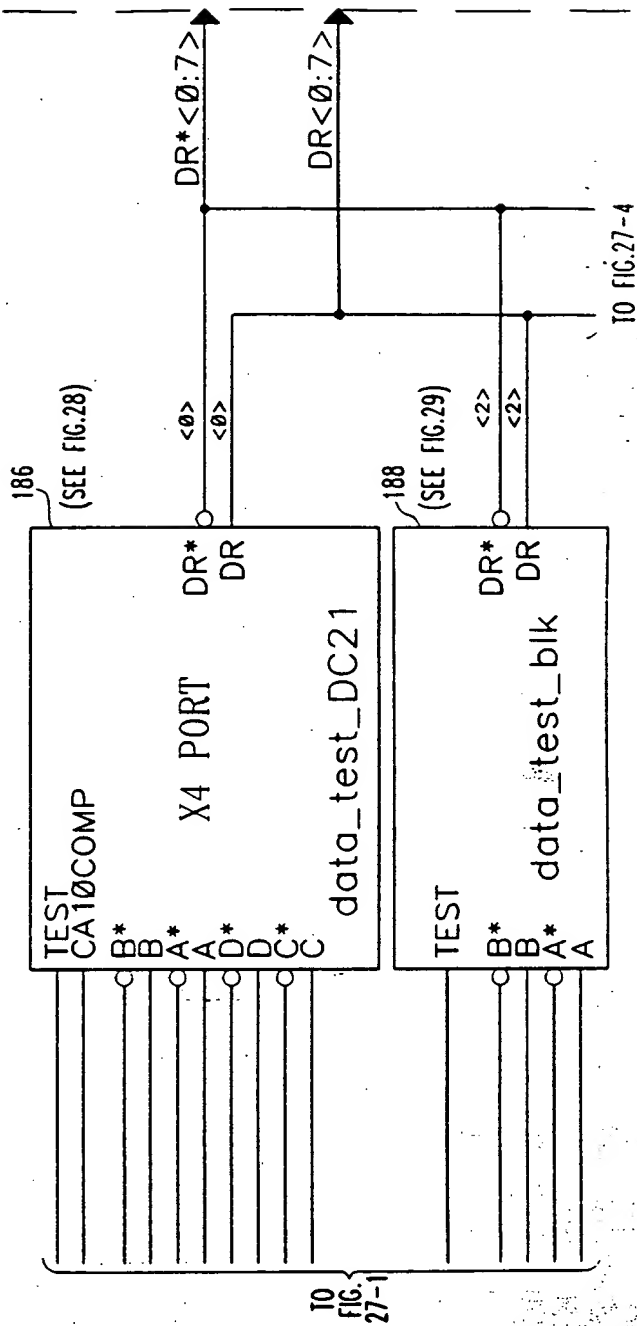
100290-1258860

FIG. 27-1

100290-71258860

FIG. 27-2

dataPathTest
Block 128



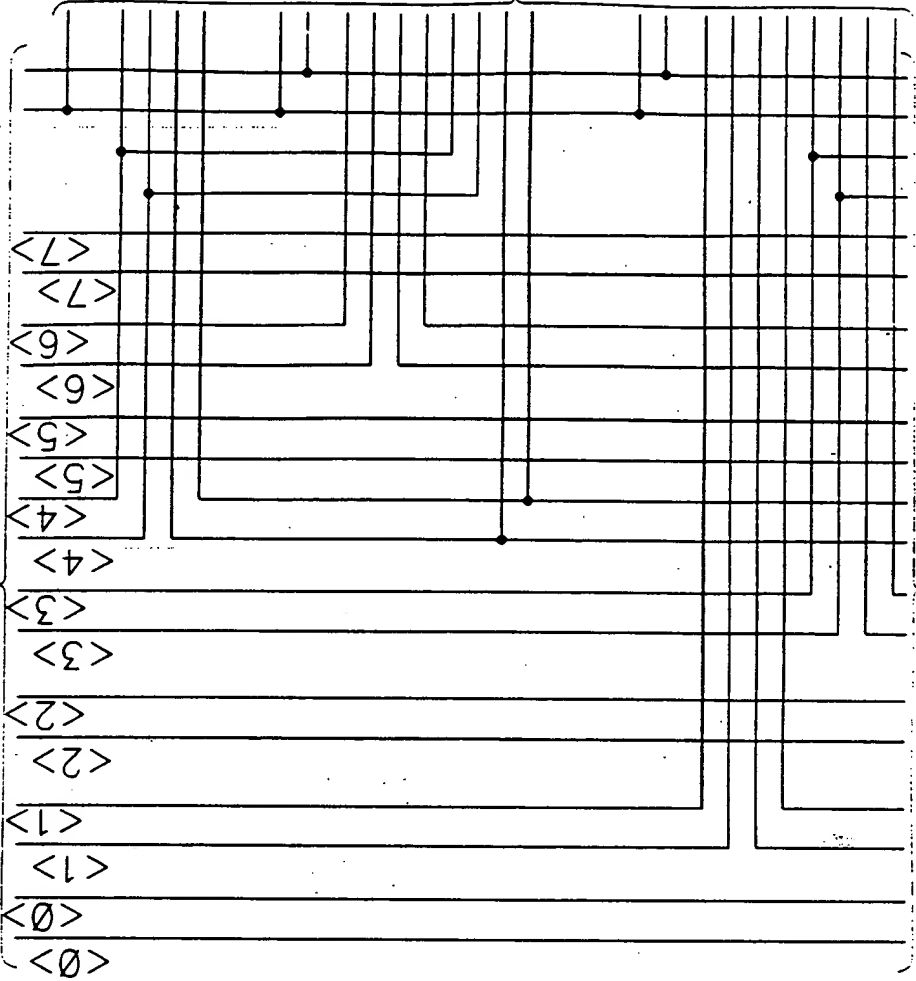
10 FIG. 27-4

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TO
FIG. 27-4

100290-71258860

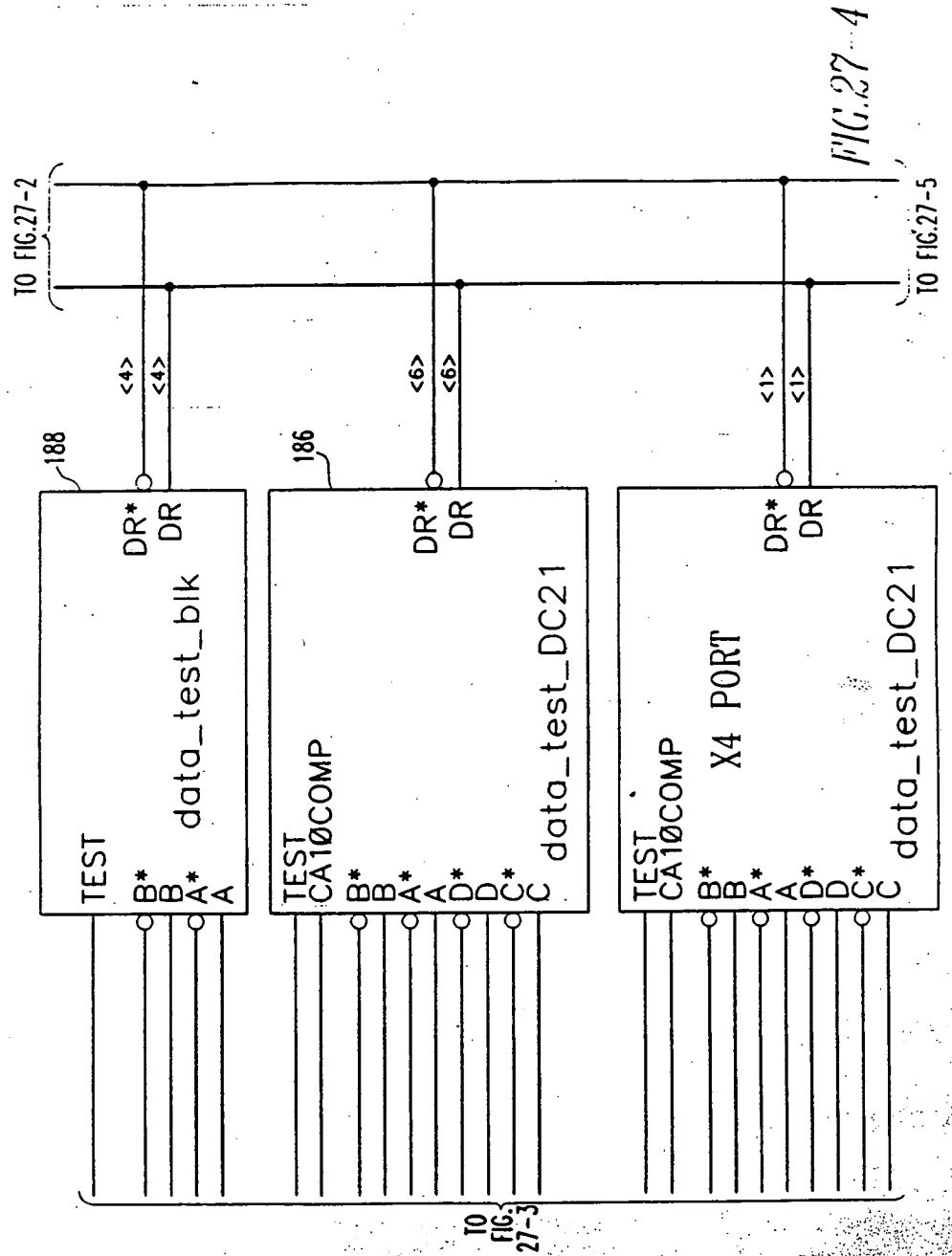
TO FIG. 27-1



TO FIG. 27-5

FIG. 27-3

100296-1258860



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FIG. 27-6

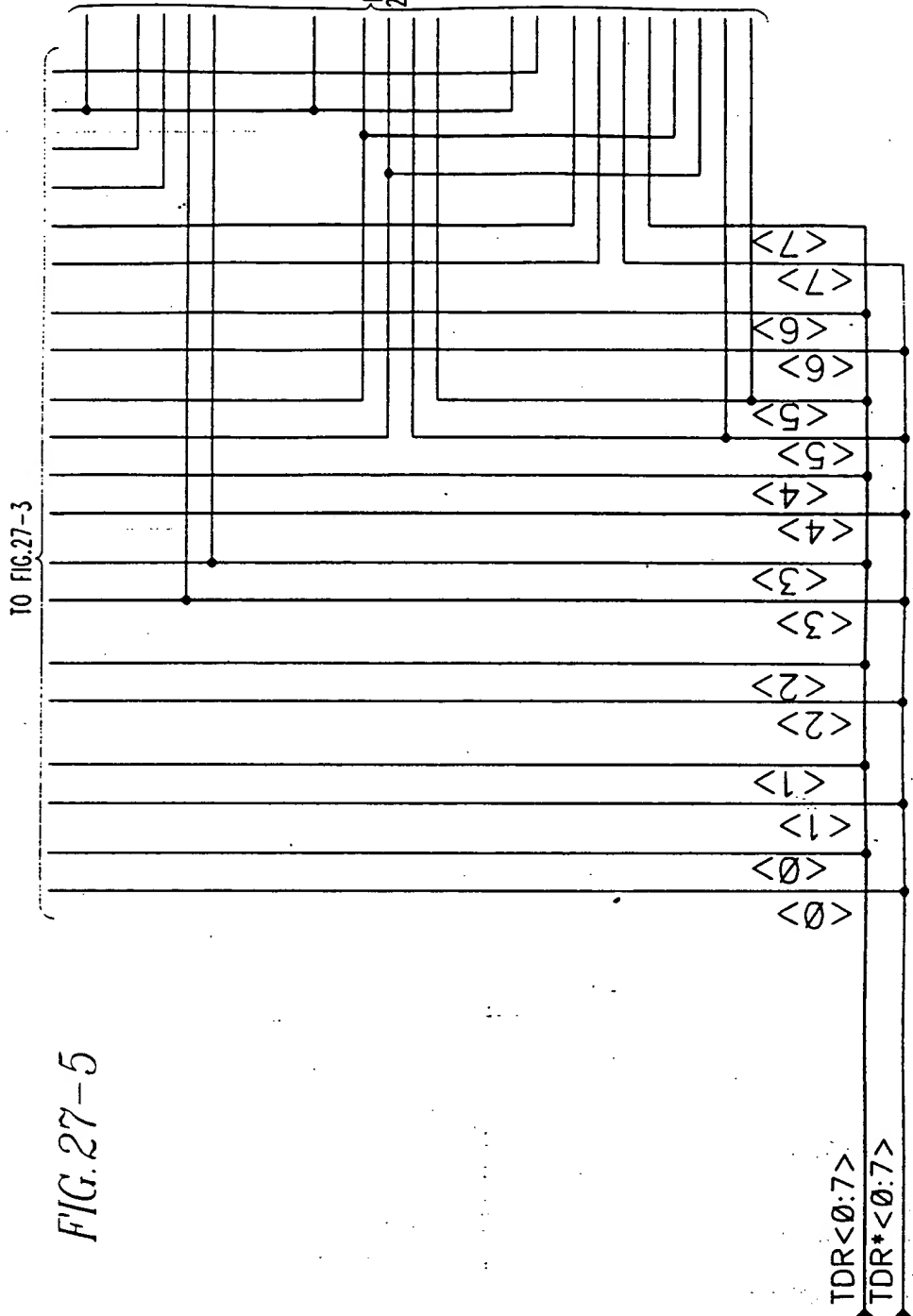


FIG. 27-5

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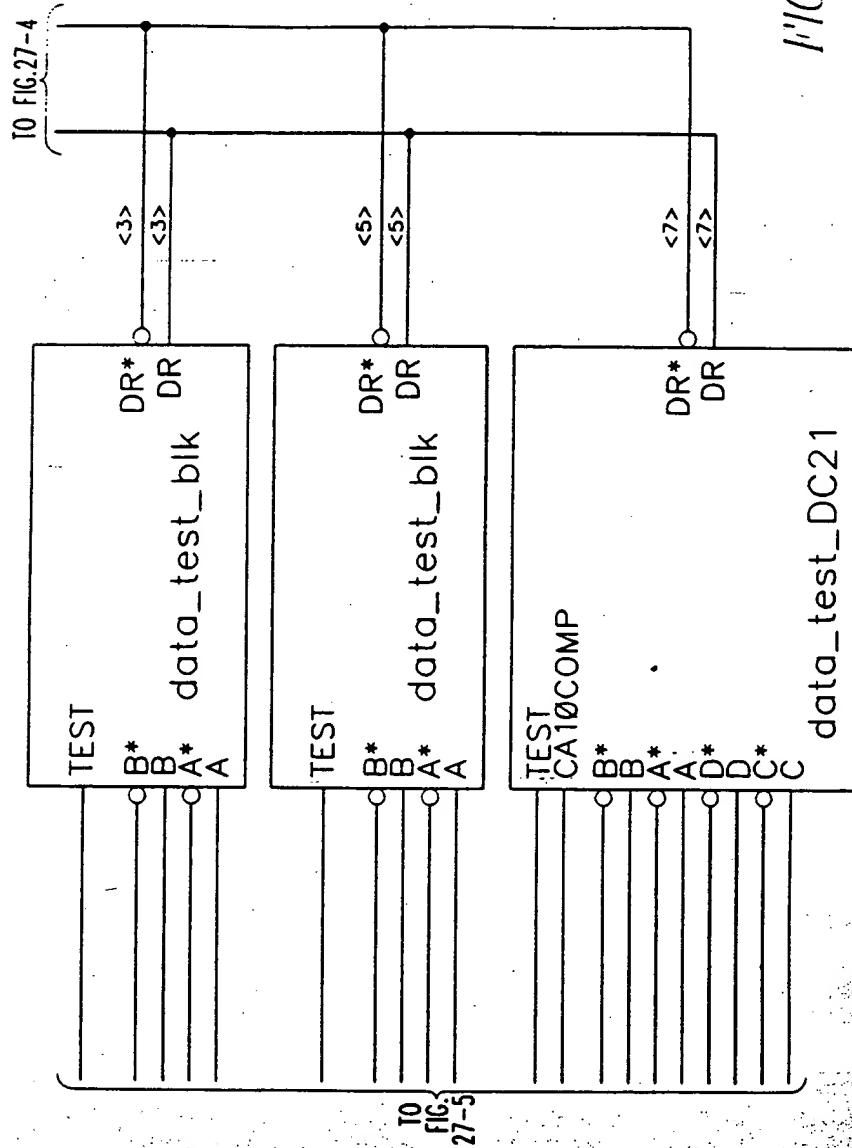


FIG. 27-6

09885217-062001

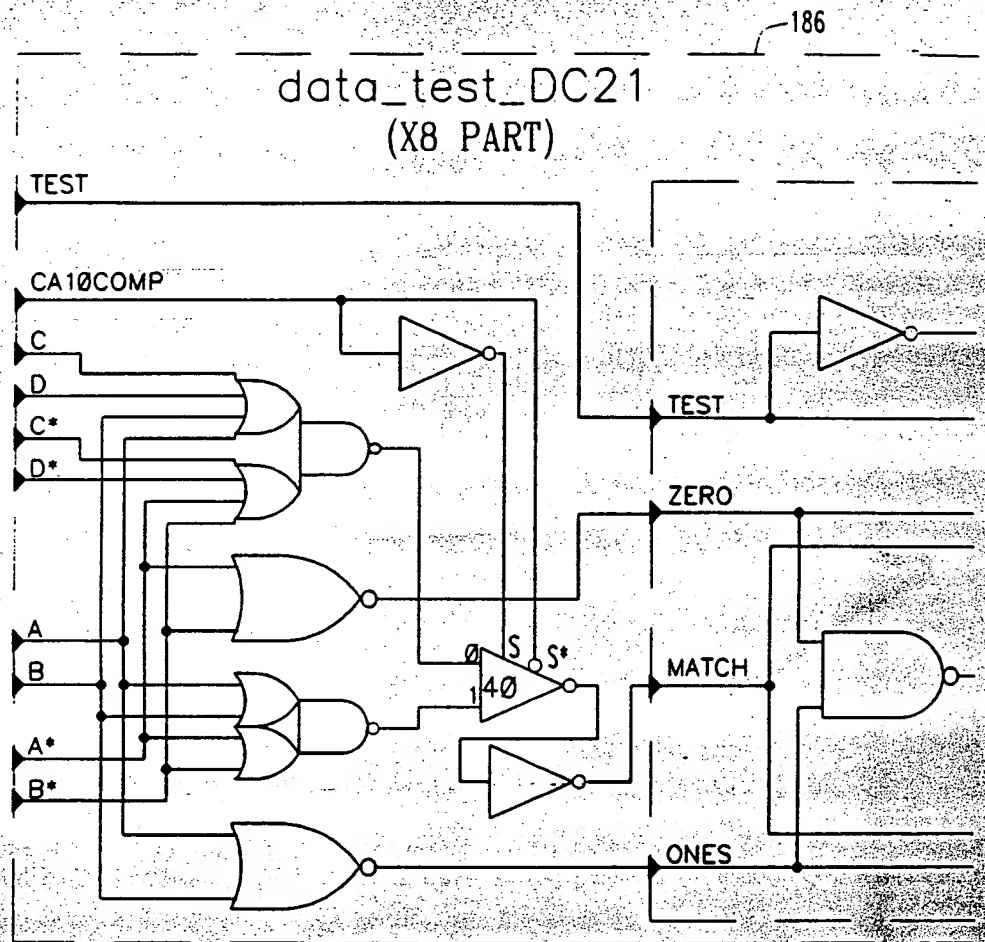


FIG. 28-1

09885217.062001

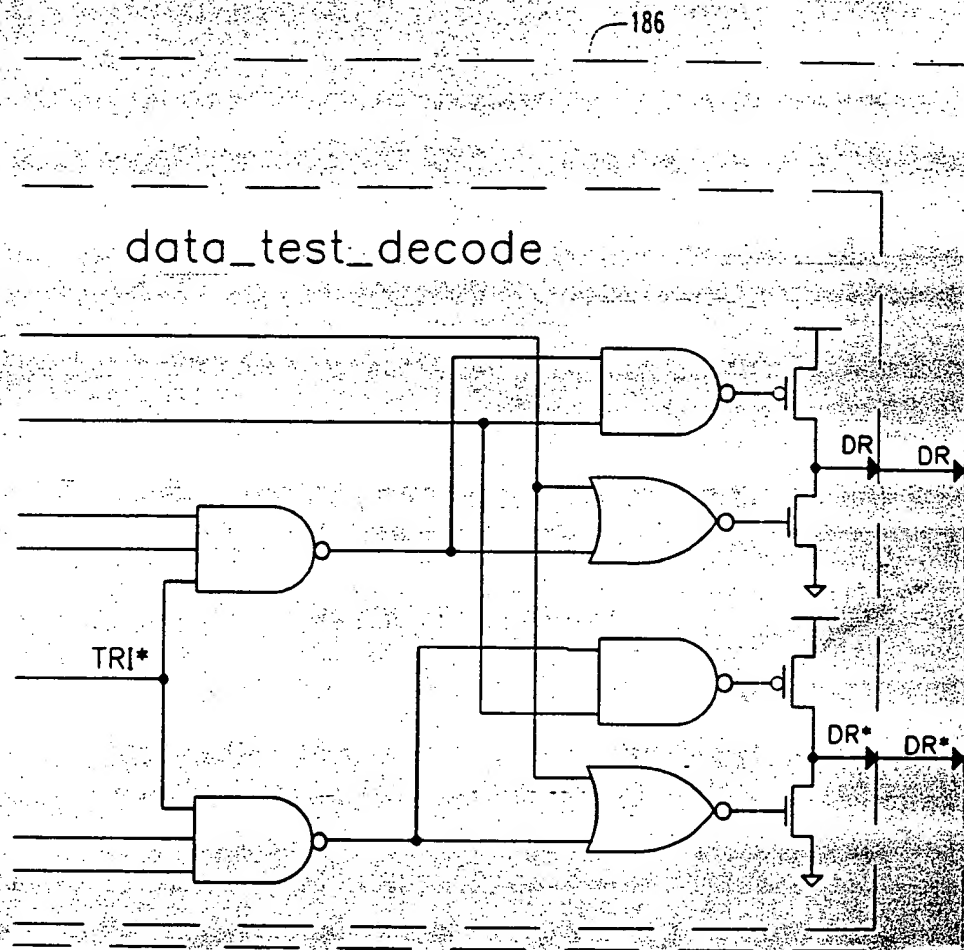


FIG. 28-2

00290-11258860

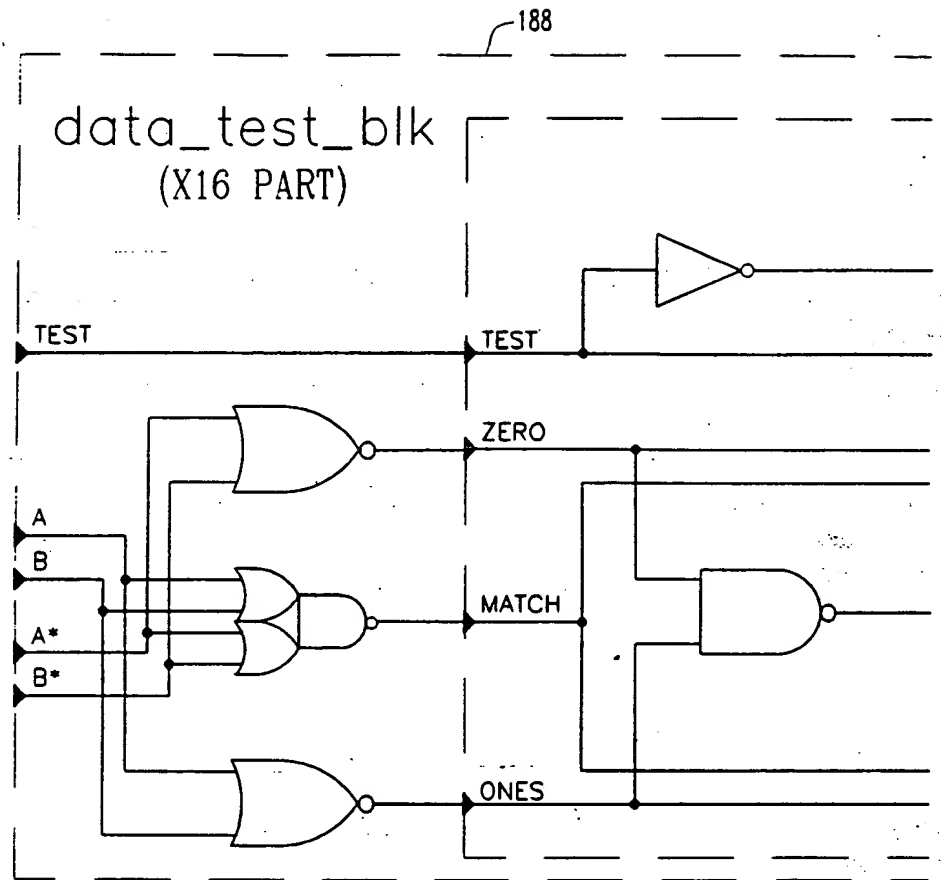


FIG.29-1

0885217-062001

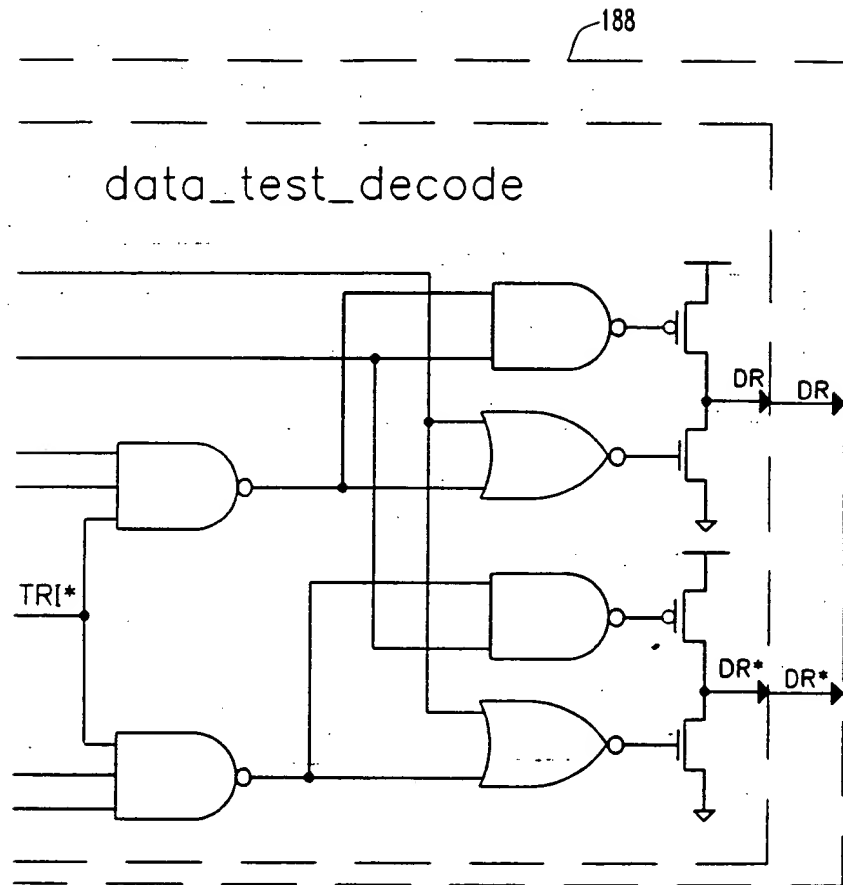
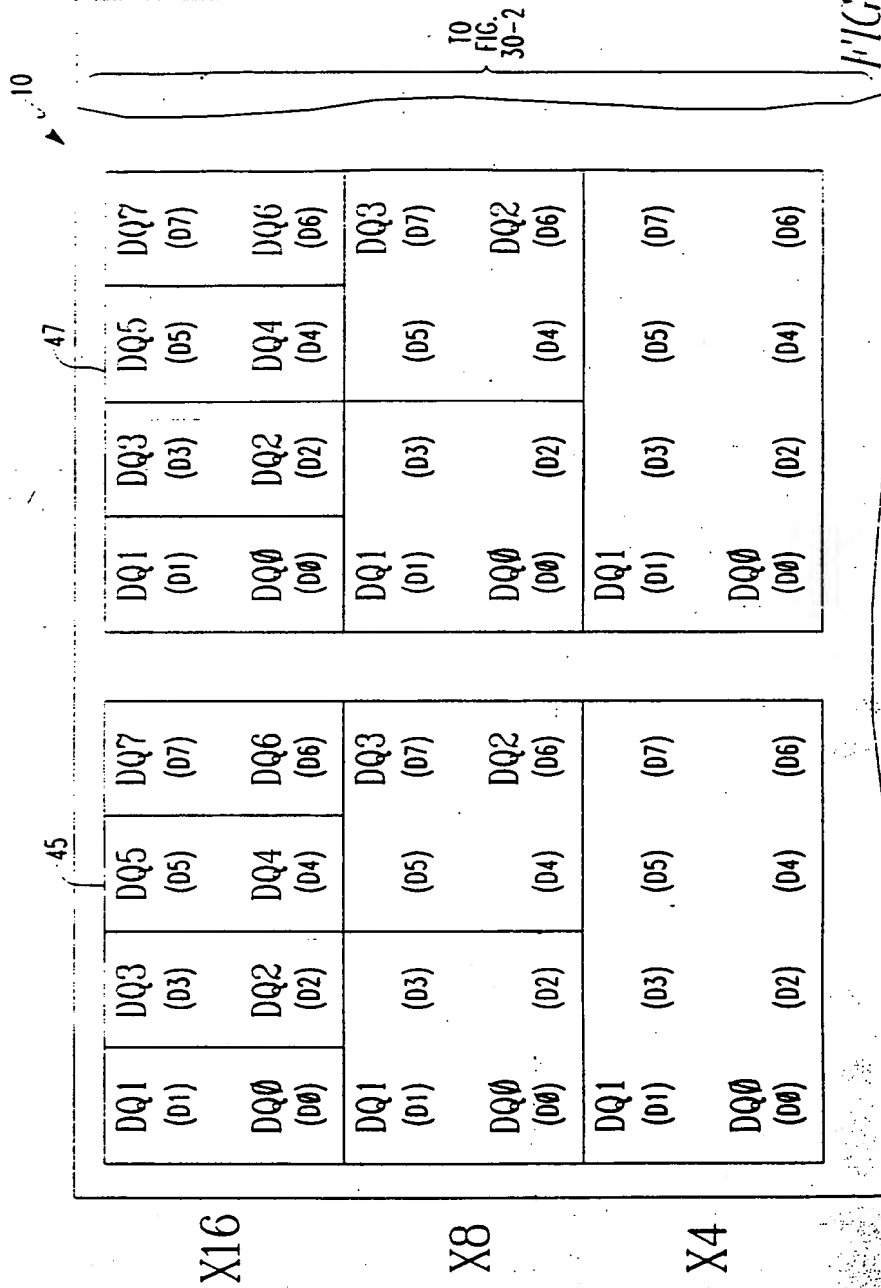


FIG. 29-2

100290-1258860



100290-1258860

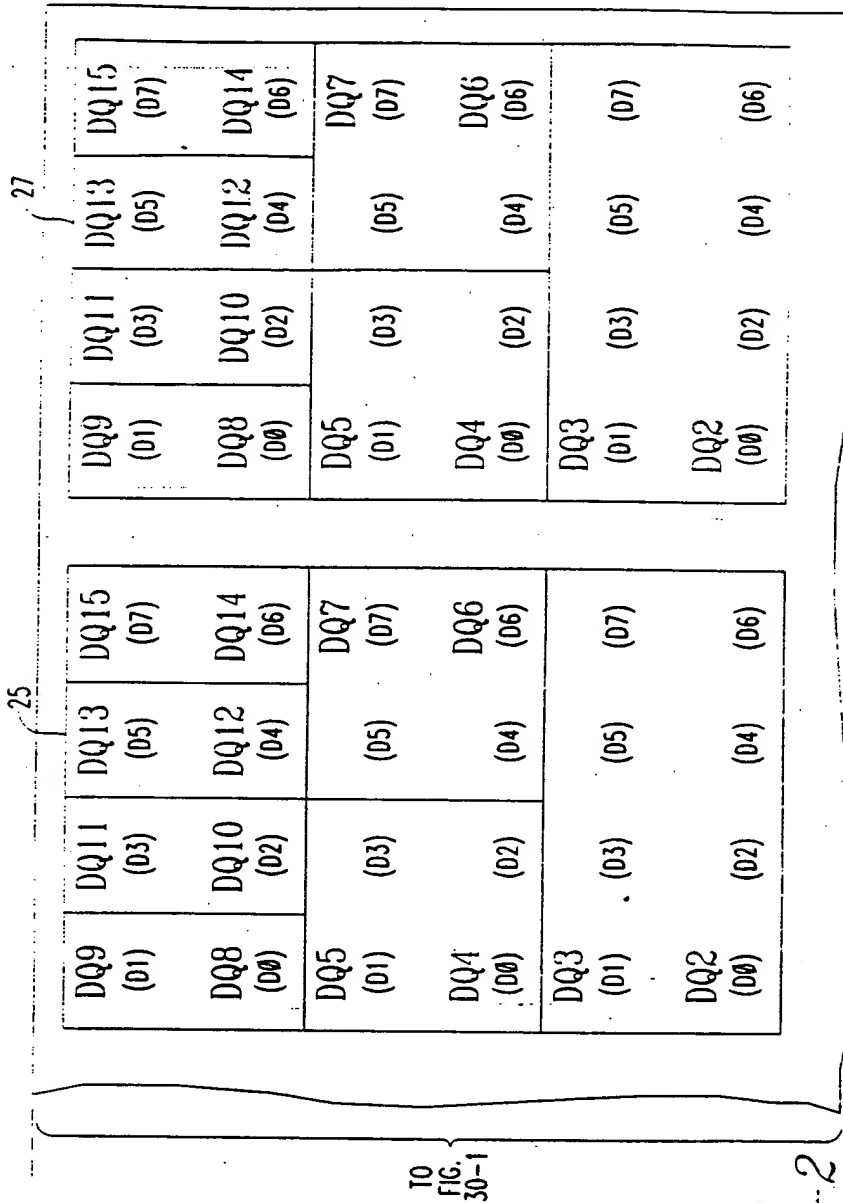


FIG. 30-2

TO FIG. 30-4

100290-1258860

10 FIG. 30-1

40

(00) DQ0	(02)	(04)	(06)
(01) DQ1	(03)	(05)	(07)
(00) DQ0	(02)	(04)	(06) DQ2
(01) DQ1	(03)	(05)	(07) DQ3
(00) DQ0	(02) DQ2	(04) DQ4	(06) DQ6
(01) DQ1	(03) DQ3	(05) DQ5	(07) DQ7

10
FIG.
30-4

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(00) DQ0	(02)	(04)	(06)
(01) DQ1	(03)	(05)	(07)
(00) DQ0	(02)	(04)	(06) DQ2
(01) DQ1	(03)	(05)	(07) DQ3
(00) DQ0	(02) DQ2	(04) DQ4	(06) DQ6
(01) DQ1	(03) DQ3	(05) DQ5	(07) DQ7

X4

X8

X16

FIG. 30 3

33

31

TO
FIG.
30-3

1000000

(00) DQ2	(02)	(04)	(06)
(01) DQ3	(03)	(05)	(07)
(00) DQ4	(02)	(04)	(06) DQ6
(01) DQ5	(03)	(05)	(07) DQ7
(00) DQ8	(02) DQ10	(04) DQ12	(06) DQ14
(01) DQ9	(03) DQ11	(05) DQ13	(07) DQ15

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X4	VSSQ	N/C	VSSQ	N/C	N/C						
X8	VSSQ	DQ3	VSSQ	DQ2	N/C						
X16	VSSQ	DQ7	VSSQ	DQ6	DQ5						
	1	2	3	4	5	6	7	8	9	10	11
X16	VCCQ	DQ0	DQ0	DQ0	VCCQ	DQ1	DQ1	DQ2	VCCQ		
X8	VCCQ	DQ0	DQ0	DQ0	VCCQ	DQ1	DQ1	N/C	N/C		
X4	VCCQ	DQ0	DQ0	DQ0	VCCQ	DQ1	DQ1	N/C	N/C		

TO FIG. 31A2

FIG. 31A1

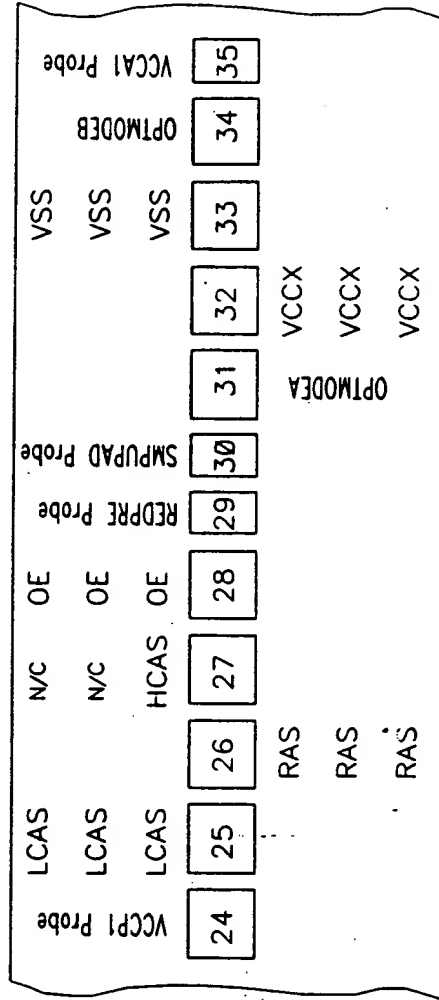
BUSINESS

TO FIG. 31A1

N/C	N/C	VSSQ	VSSQ	VSS	DVC2_L Probe	AVC2_L Probe	NCSV	VCC1 Probe
12	13	14	15	16	17	18	19	20
VSSQ	DQ3	DQ4	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
21	22	23	24	25	26	27	28	29
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
30	31	32	33	34	35	36	37	38
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
39	40	41	42	43	44	45	46	47
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
48	49	50	51	52	53	54	55	56
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
57	58	59	60	61	62	63	64	65
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
66	67	68	69	70	71	72	73	74
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
75	76	77	78	79	80	81	82	83
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
84	85	86	87	88	89	90	91	92
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
93	94	95	96	97	98	99	100	101
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
102	103	104	105	106	107	108	109	110
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
111	112	113	114	115	116	117	118	119
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
120	121	122	123	124	125	126	127	128
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
129	130	131	132	133	134	135	136	137
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
138	139	140	141	142	143	144	145	146
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
147	148	149	150	151	152	153	154	155
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
156	157	158	159	160	161	162	163	164
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
165	166	167	168	169	170	171	172	173
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
174	175	176	177	178	179	180	181	182
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
183	184	185	186	187	188	189	190	191
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV
192	193	194	195	196	197	198	199	200
VSSQ	N/C	N/C	VCCQ	VCCQ	VCCX	VSS	NCSV	NCSV

FIG. 31A2

SECRET



10 FIG. 31B2

FIG. 31B1

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TO FIG. 31B1
↓

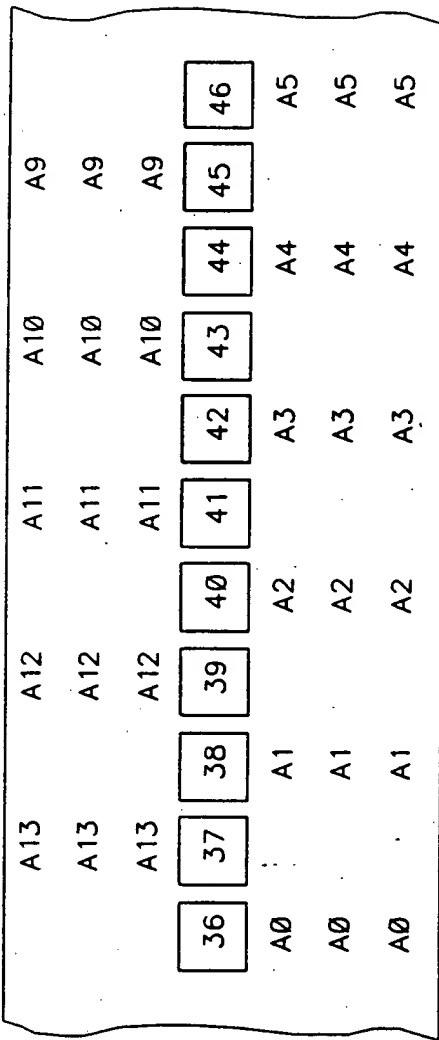


FIG. 31B2

10 FIG. 31C2

FIG. 31C1

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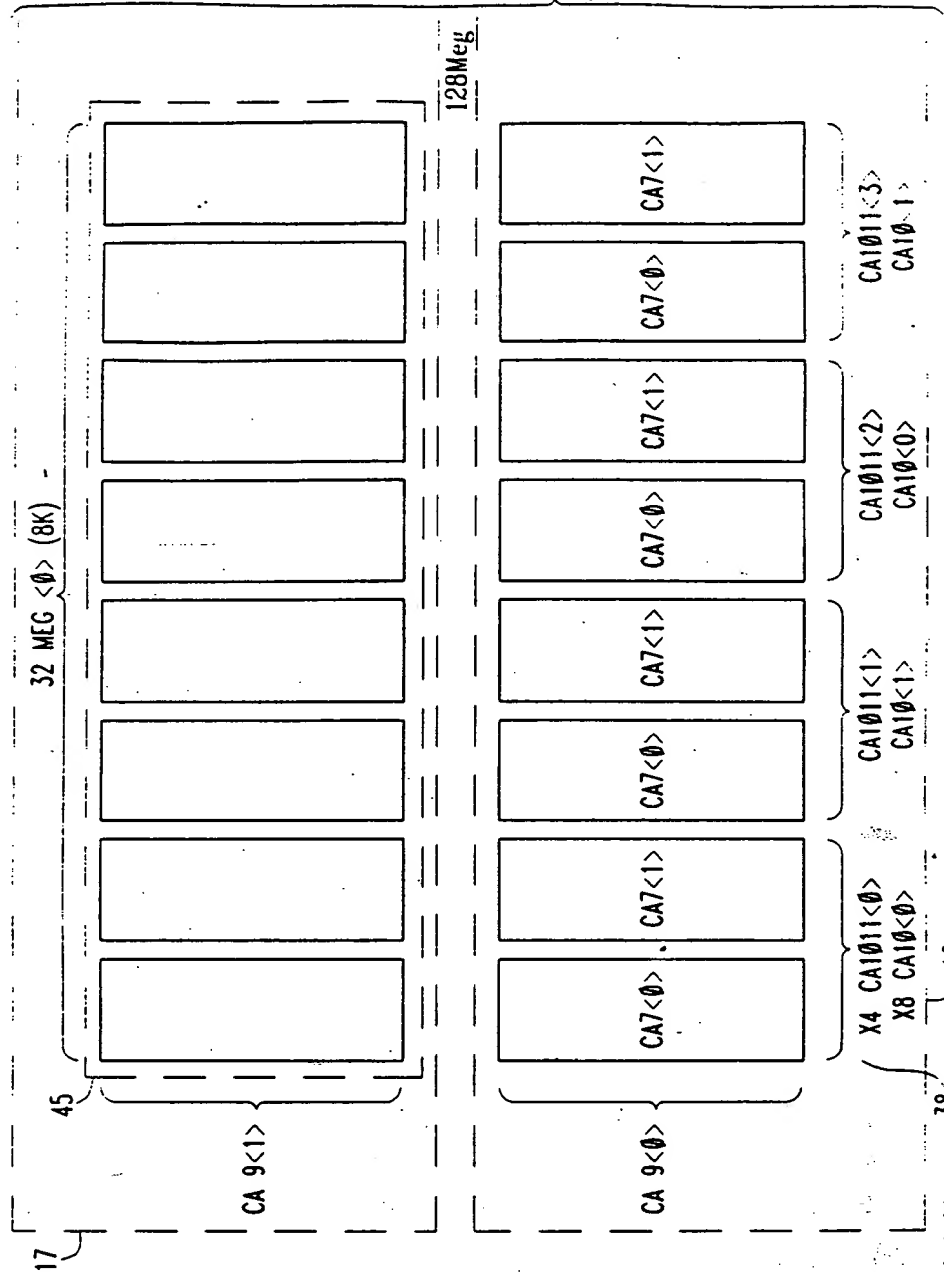
TO FIG. 31C1

N/C	N/C	N/C	VSSQ	N/C	N/C	VSSQ	VBB
N/C	DQ6	N/C	VSSQ	N/C	N/C	VSSQ	VBB
VSSQ	DQ14	DQ13	VSSQ	DQ12	VSSQ	VBB	
60	61	62	63	64	65	66	67
	DQ9	DQ10	VCCQ	DQ11	VCCQ	VBB	
	DQ5	N/C	VCCQ	N/C	VCCQ	VBB	
	DQ3	N/C	VCCQ	N/C	VCCQ	VBB	

FIG. 31C2

TO
FIG.
32A2

32 MEG $< \emptyset > (8K)$



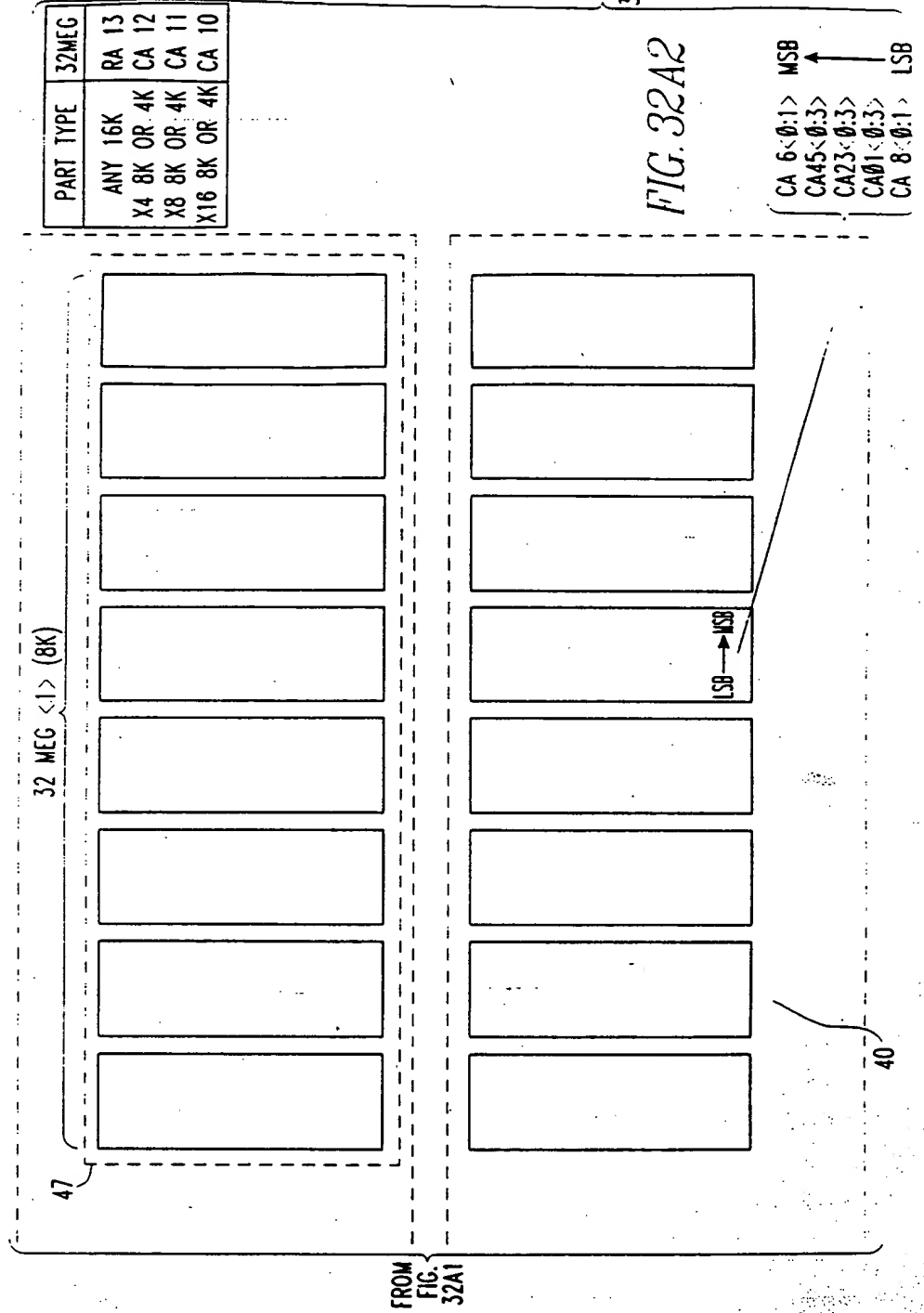
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10
FIG.
32A3

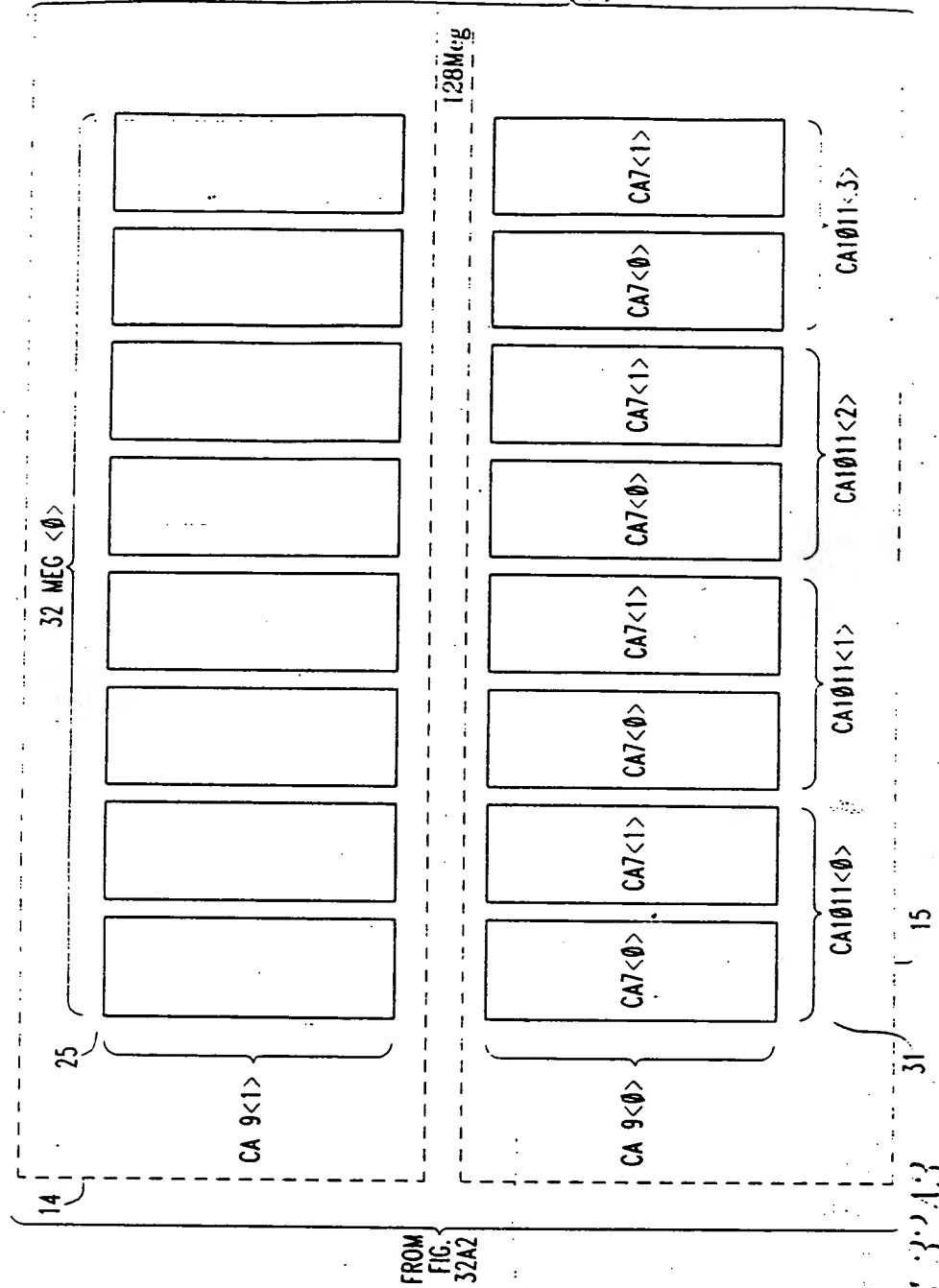
11
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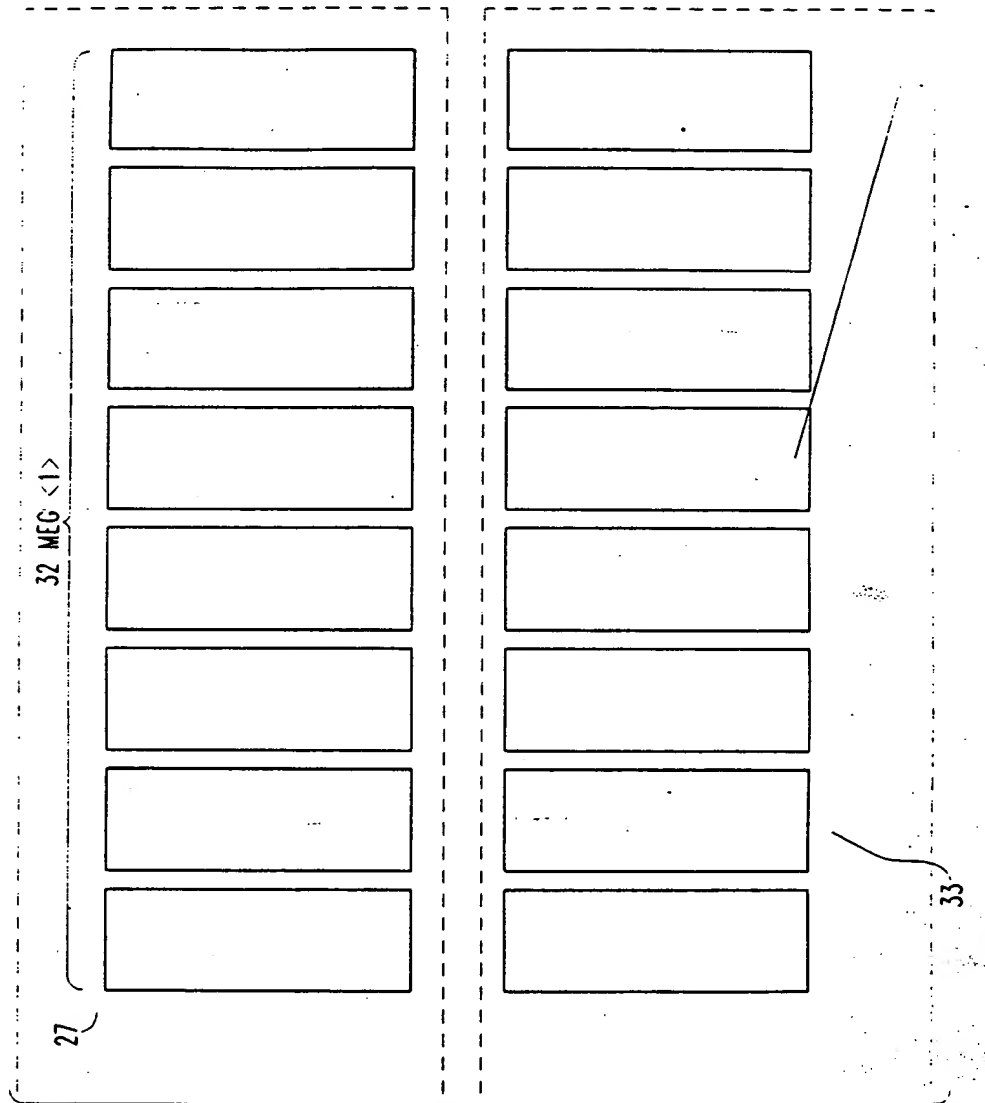
10
FIG.
32A4

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T00290-1258860



FROM
FIG.
32A3

FIG. 32A4

CA 6<0:1> MSB
CA45<0:3>
CA23<0:3>
CA01<0:3>
CA 8<0:1> LSB

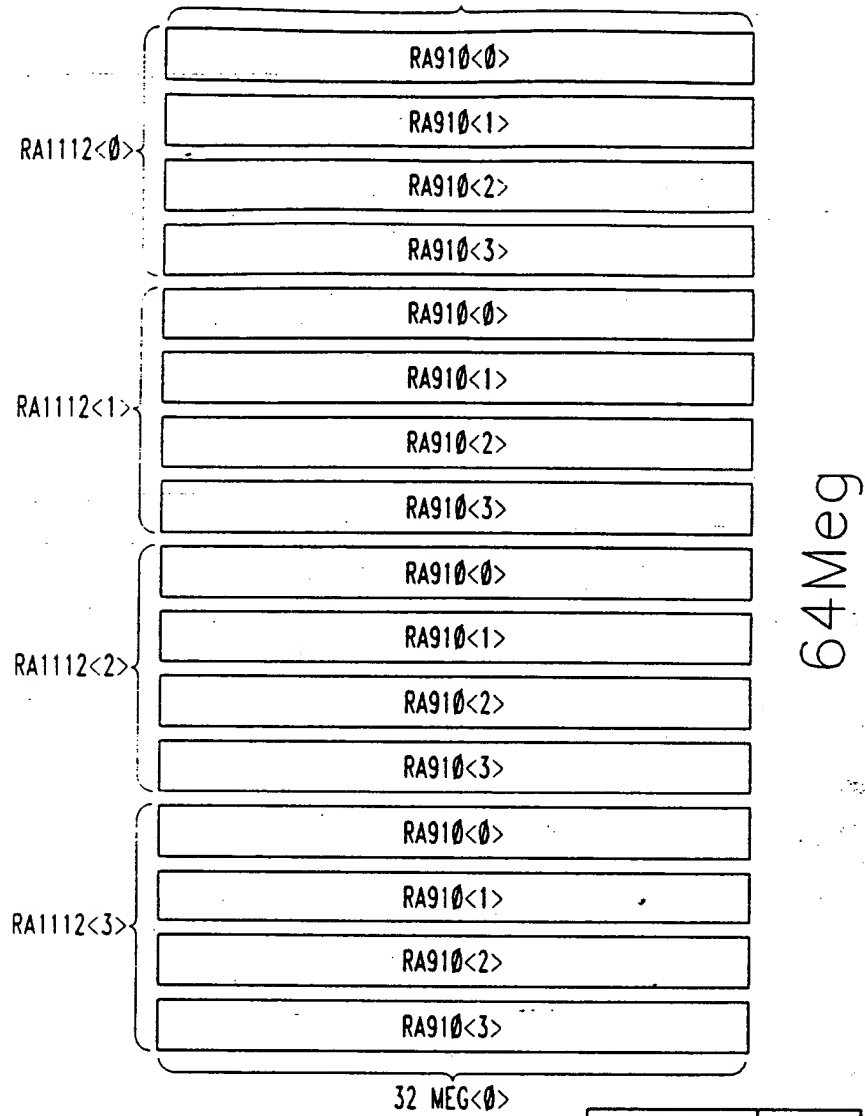


FIG. 32B1

PART TYPE	32MEG
ANY 16K	RA_13
X4 8K OR 4K	CA_12
X8 8K OR 4K	CA_11
X16 8K OR 4K	CA_10

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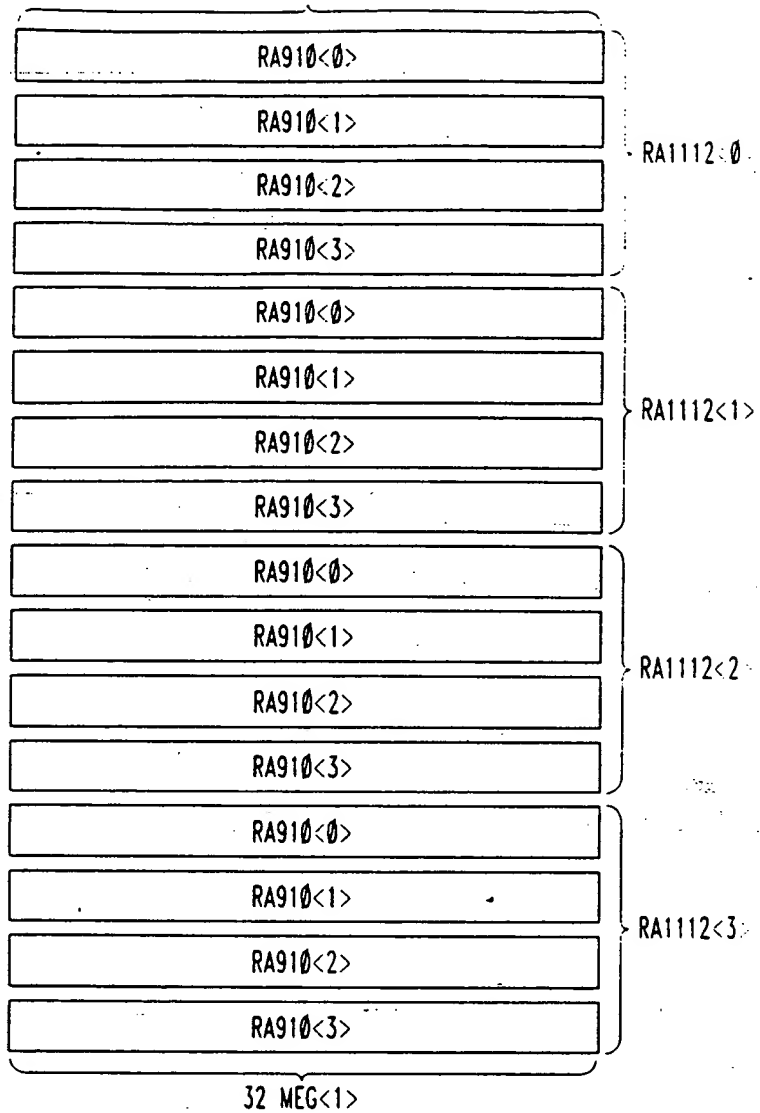
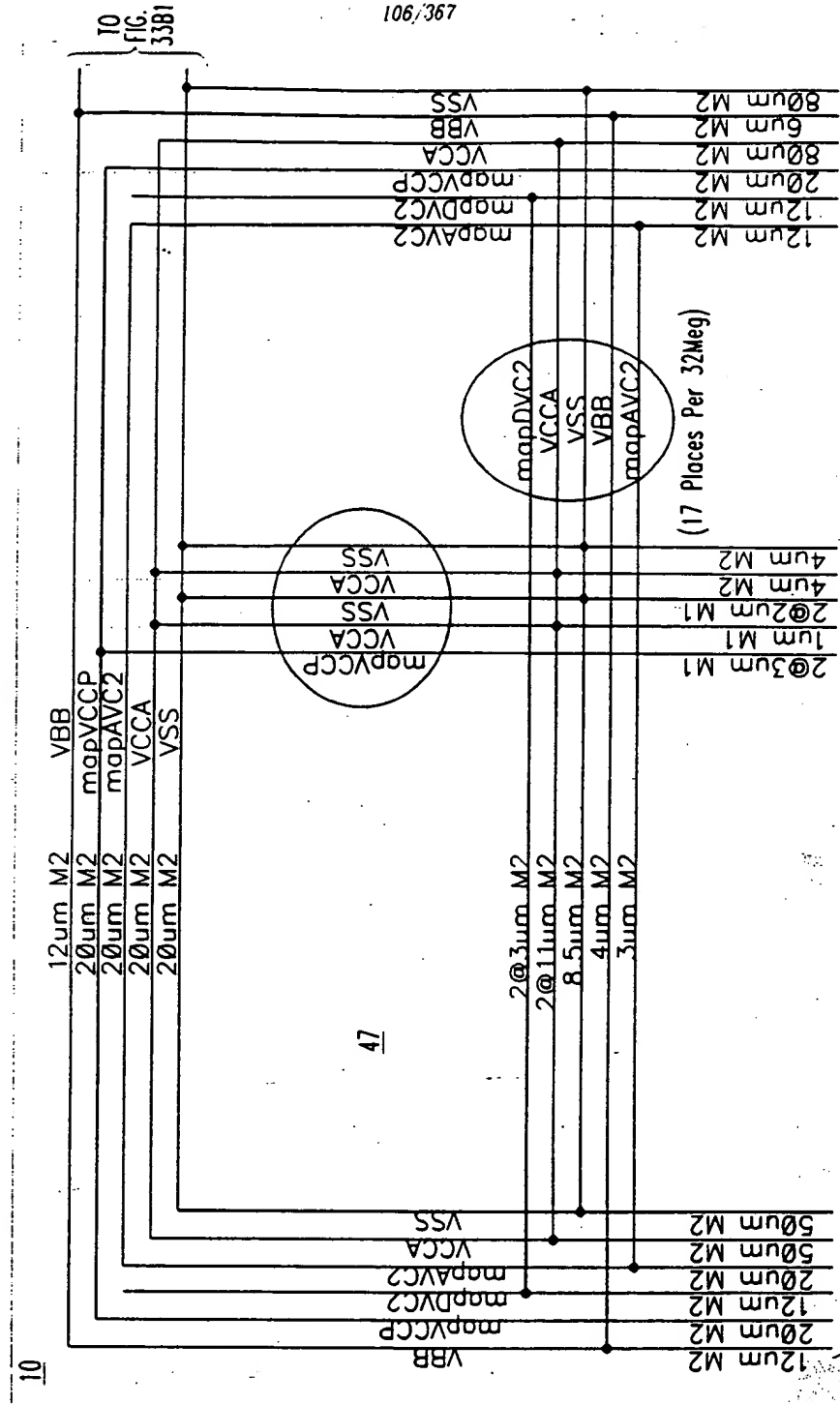


FIG. 32B2

10
FIG.
33B1

UNIVERSITY OF CALIFORNIA



TO FIG. 33A2

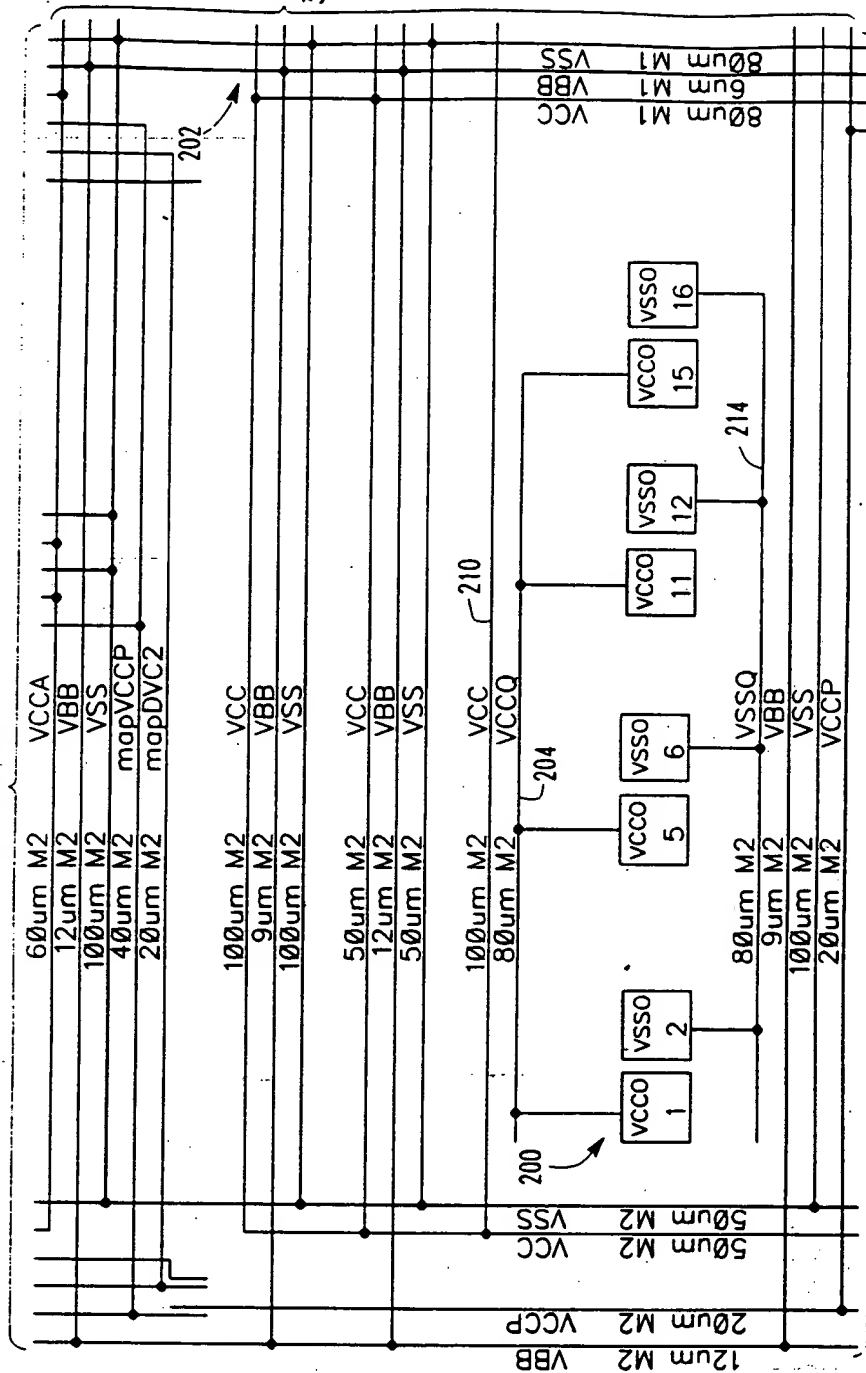
143341

TO
FIG.
33B3

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FROM FIG. 33A1

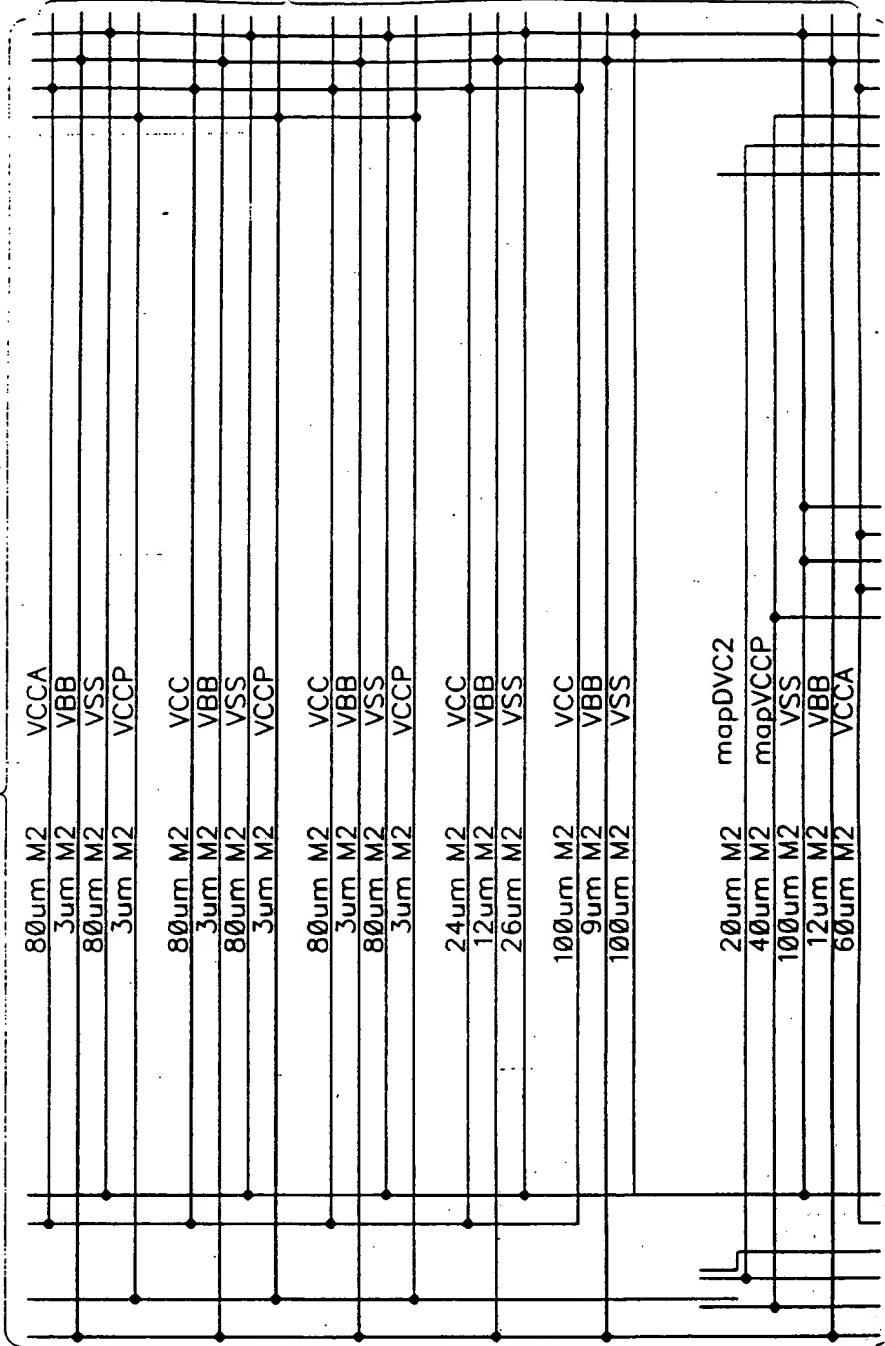


TO FIG. 33A3

FIG. 33A2

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FROM FIG. 33A2

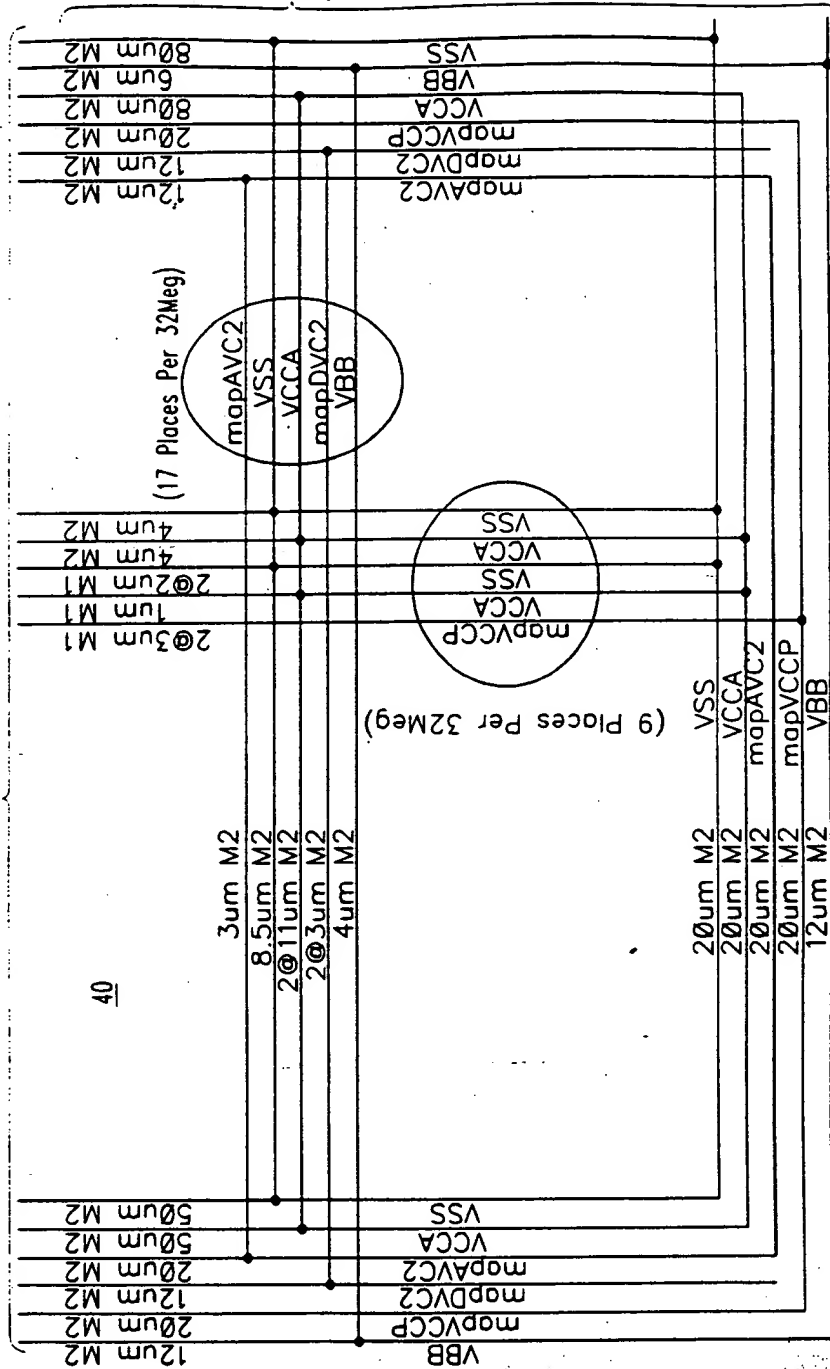


TO FIG. 33A4

FIG. 33A3

05030707

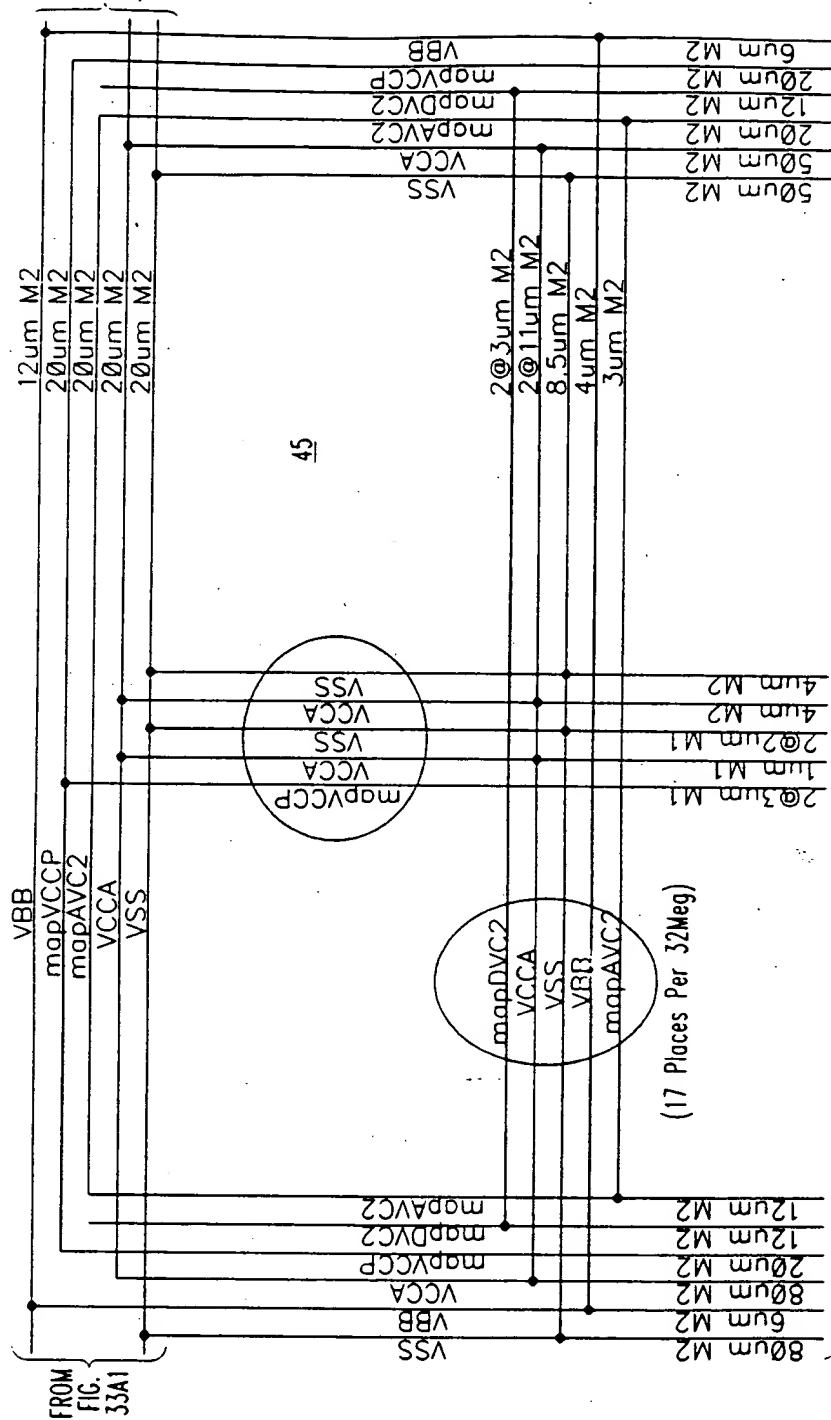
FROM FIG. 33A3



1433A.1

1000

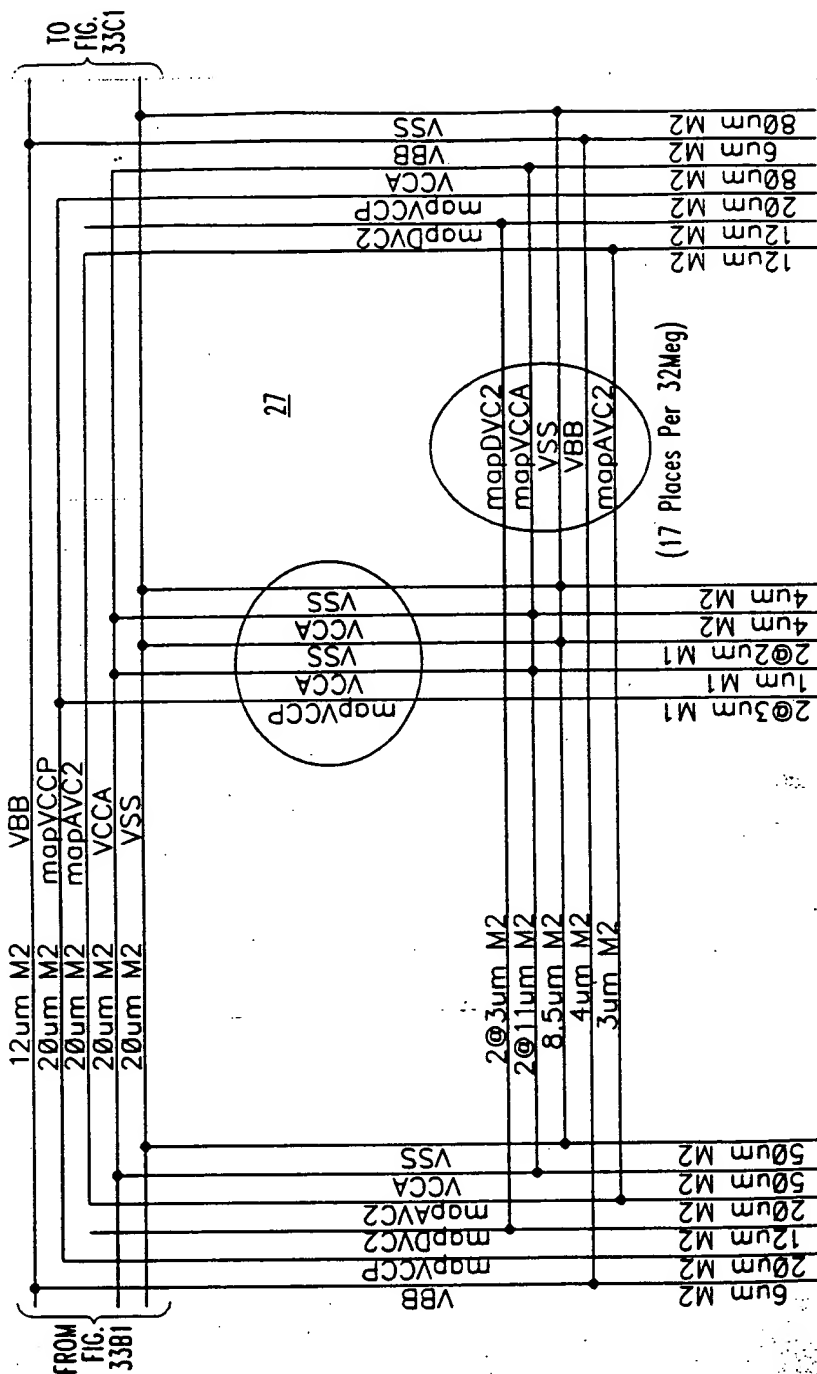
10
FIG.
33B2



10 FIG. 33B3

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USE OF THE



TO FIG. 33B4

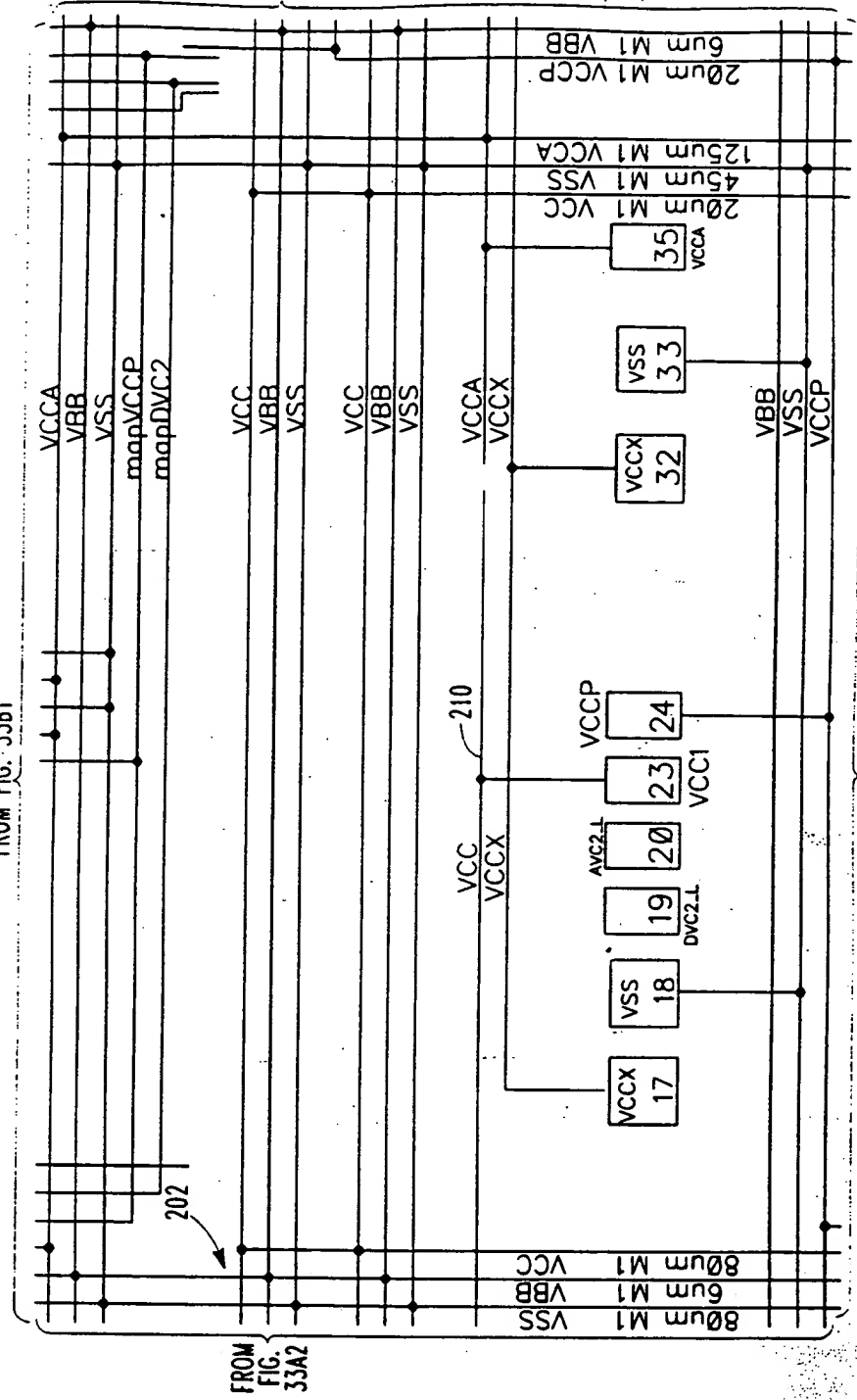
FIG. 33B2

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TO
FIG.
33B4

TO FIG. 33B3

FROM FIG. 33B1

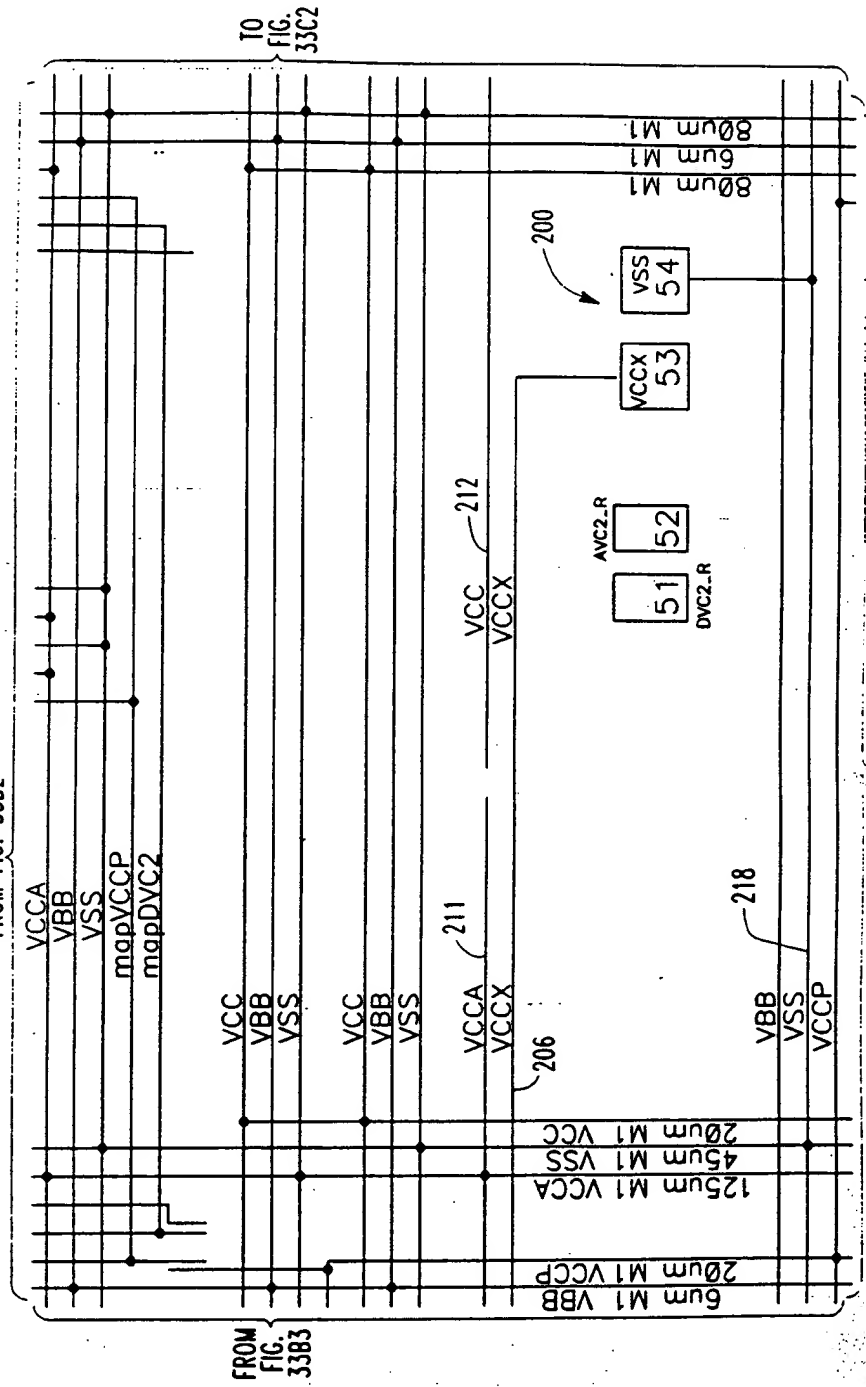


TO FIG. 33B3

FIG. 33B3

11
T00290-1258860

FROM FIG. 33B2

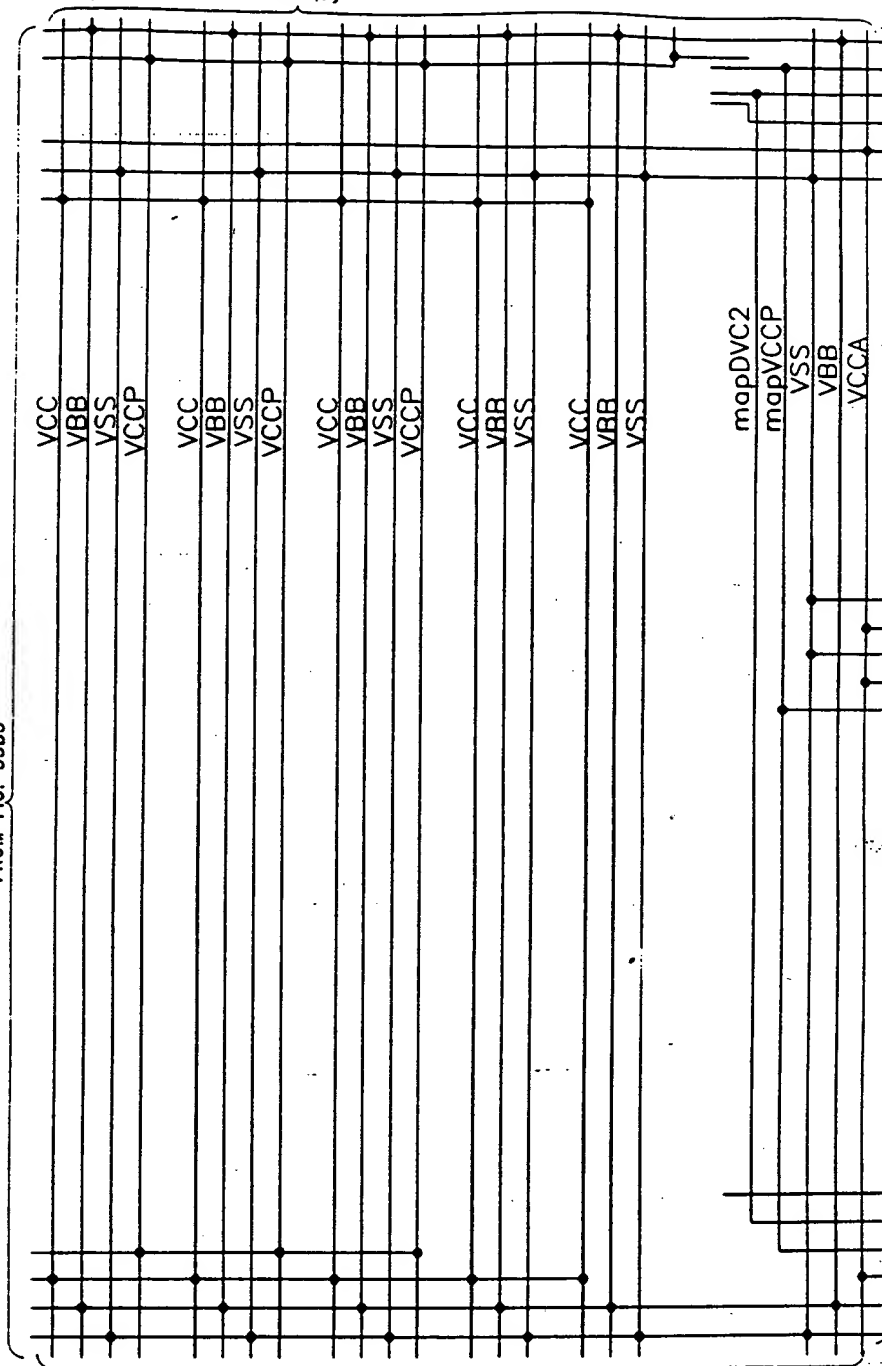


TO FIG. 33B6

FIG. 33B1

100296-1258860

FROM FIG. 33B3



FROM
FIG.
33A3

TO
FIG.
33B6

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TO FIG. 33B7

FIG. 33B5

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FROM FIG. 33B4

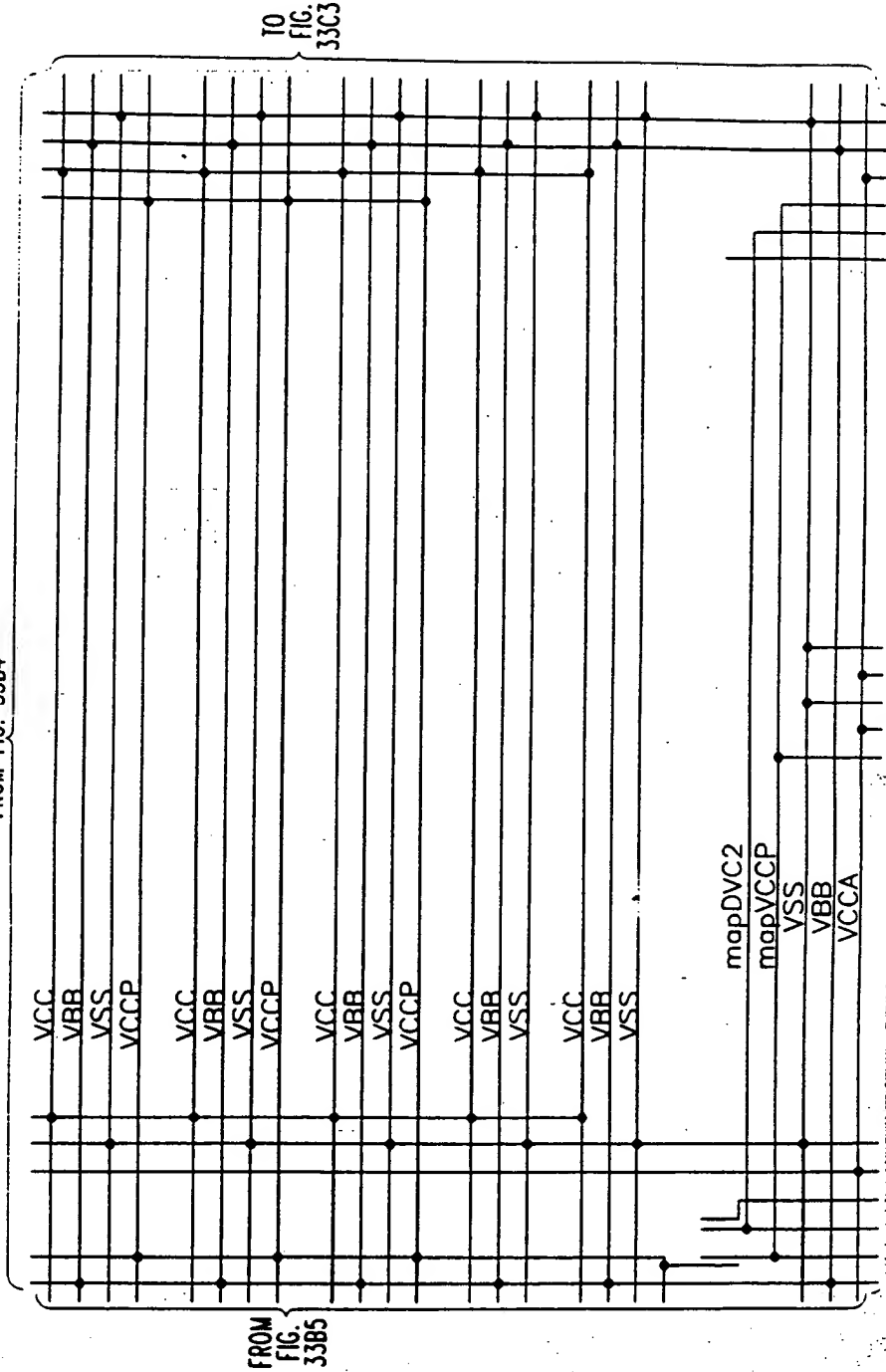
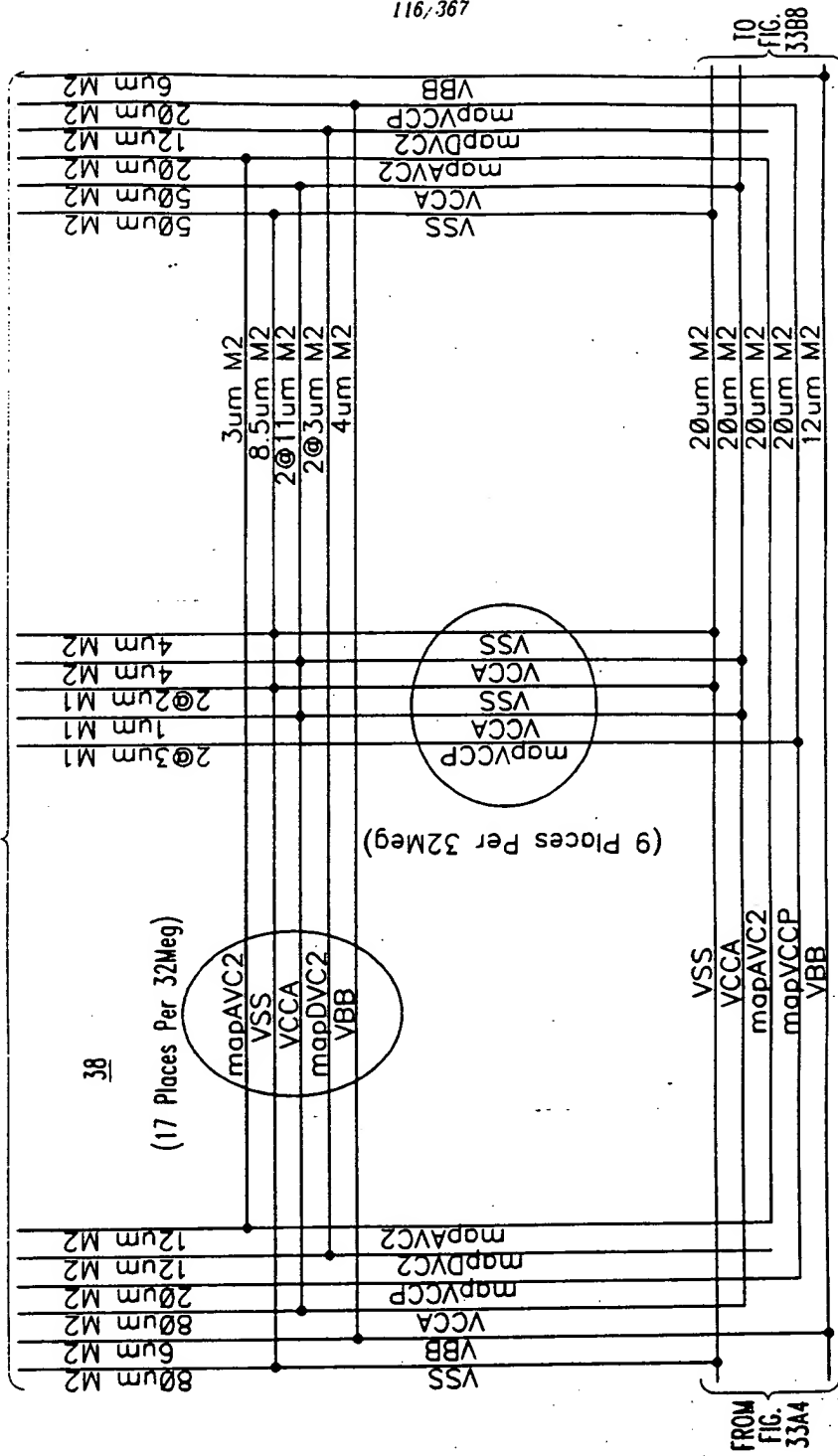


FIG. 33B6

TO FIG. 33B8

FROM FIG. 33B5



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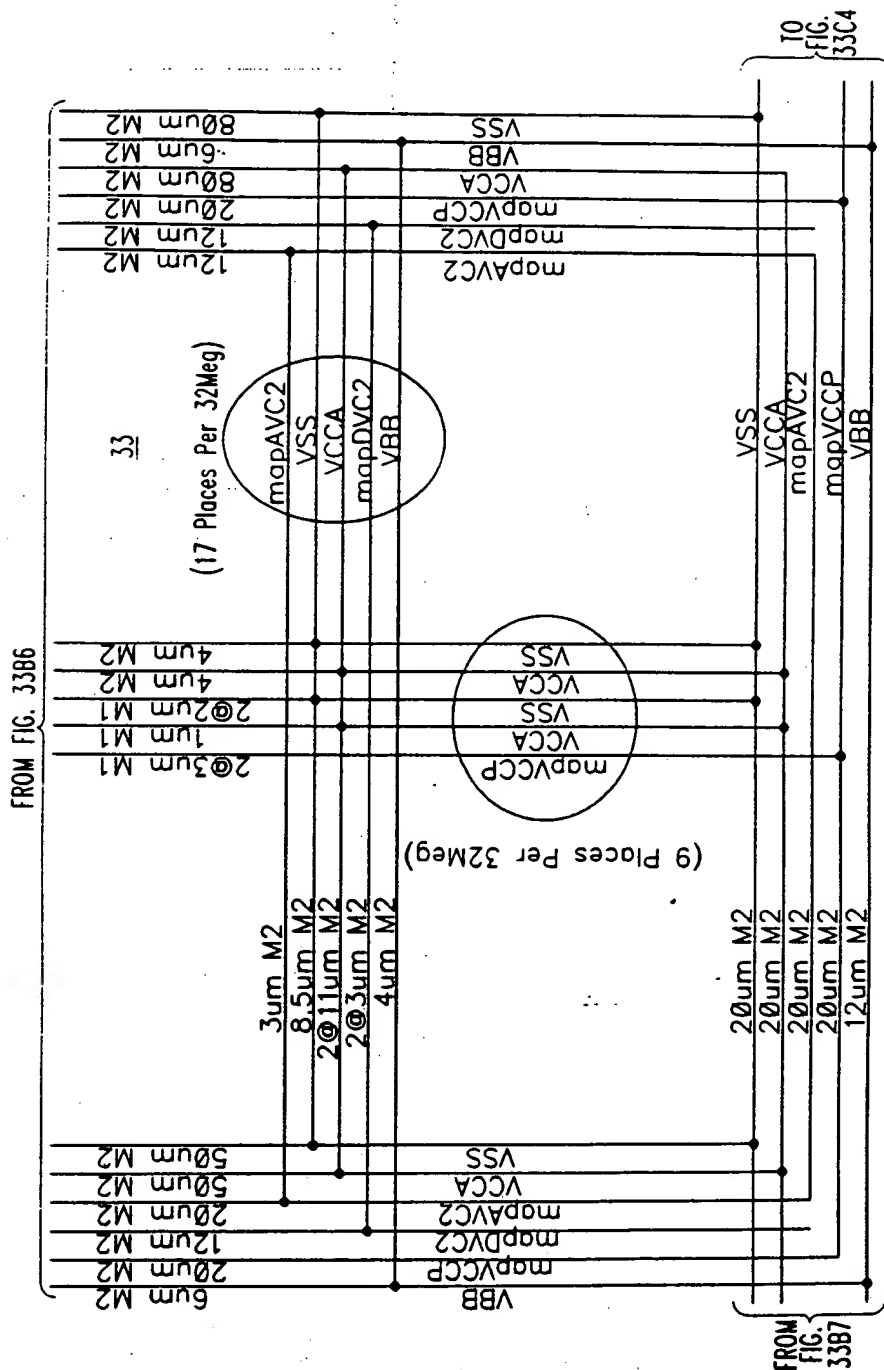
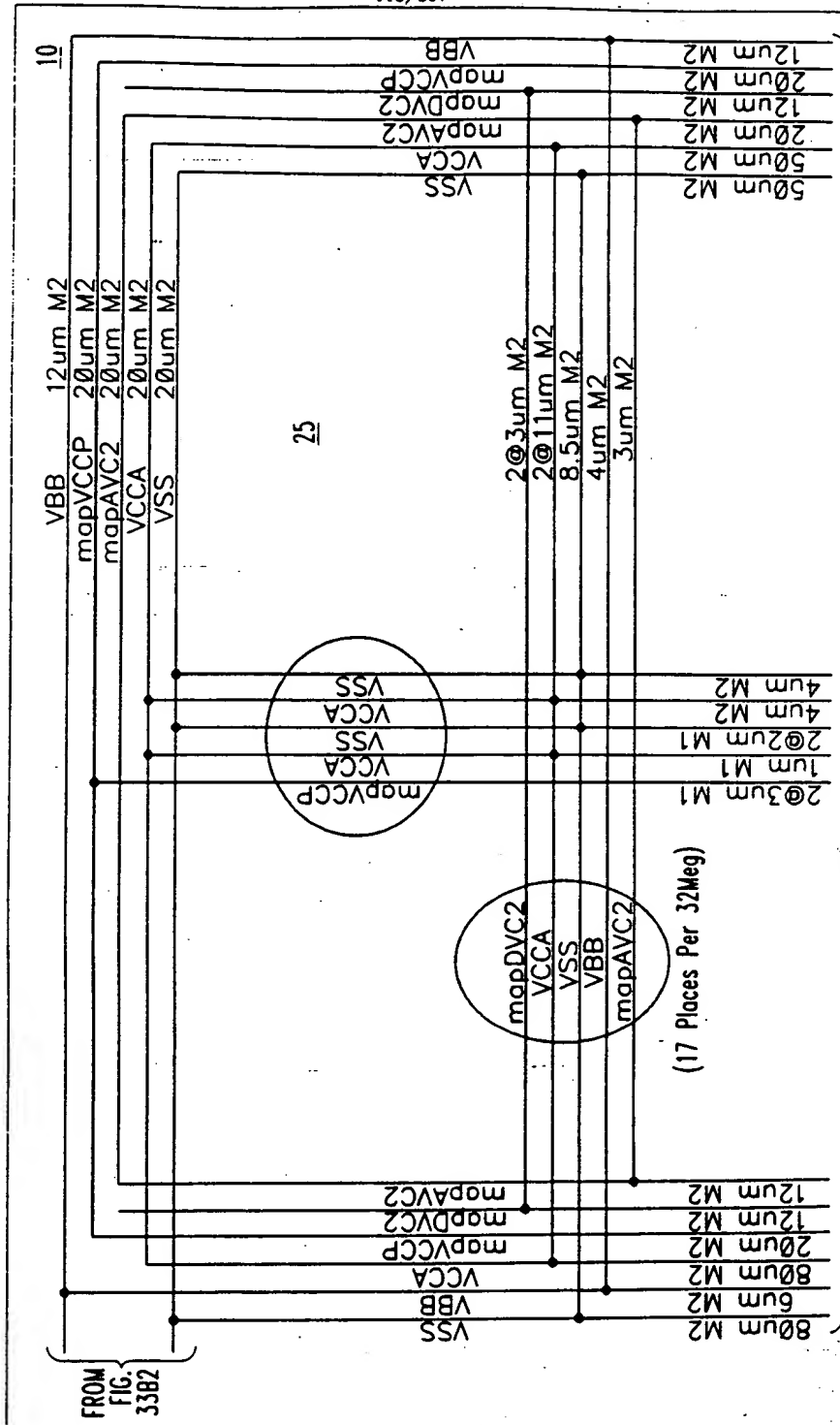


FIG. 33B8

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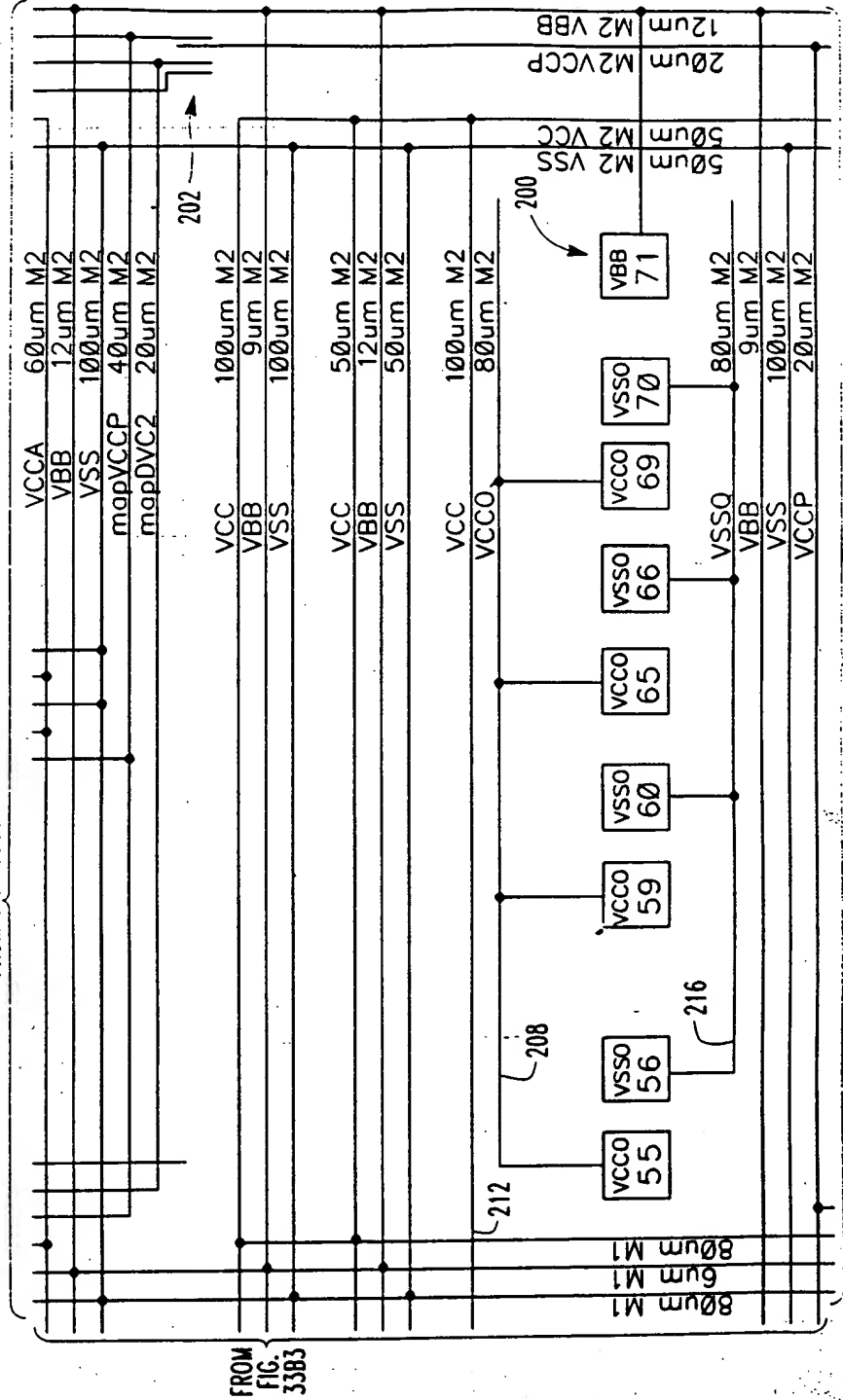


TO FIG. 33C2

FIG. 33C1

11
T00290-71258860

FROM FIG. 33C1



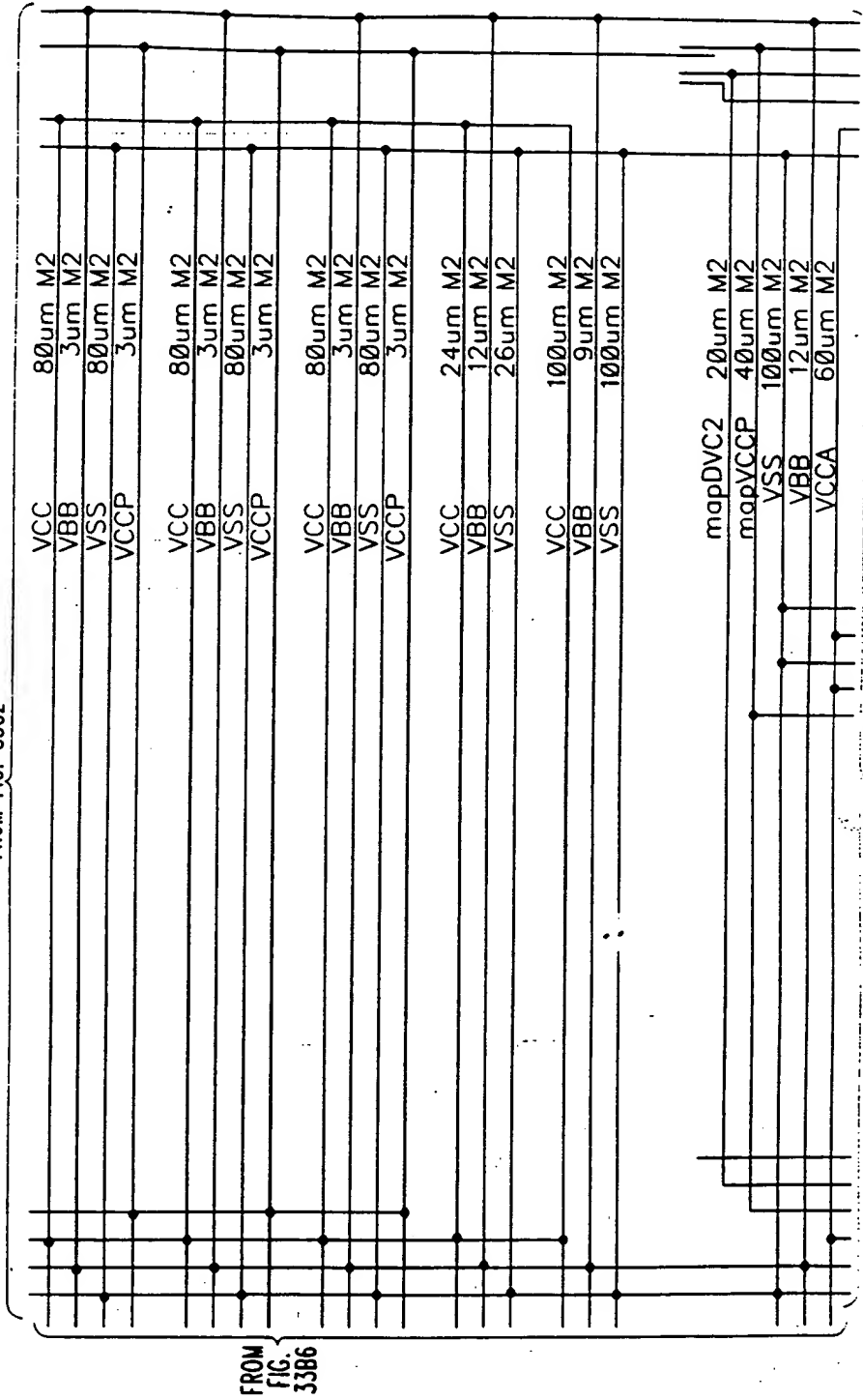
10 FIG. 33C3

FIG. 33C2

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FROM FIG. 33C2

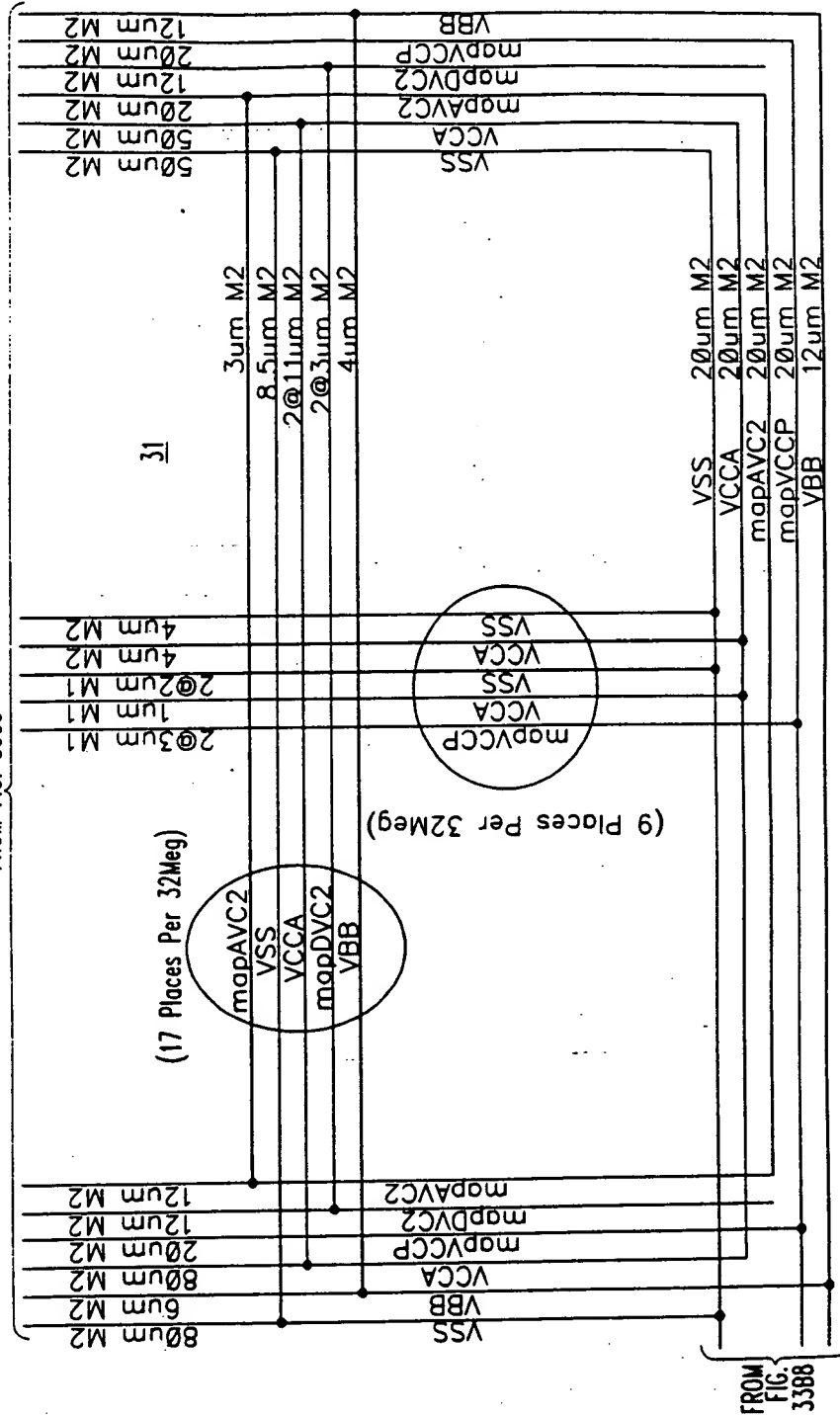


TO FIG. 33C4

146 33C3

SECRET

FROM FIG. 33C3



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10

45

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200

DVC2
GENERATOR 500

□□□□□□□□□□ □□□□□□□□□□

VCCP
PUMP CIRCUITS 402

DVC2
GENERATOR 501

TO
FIG.
33D3

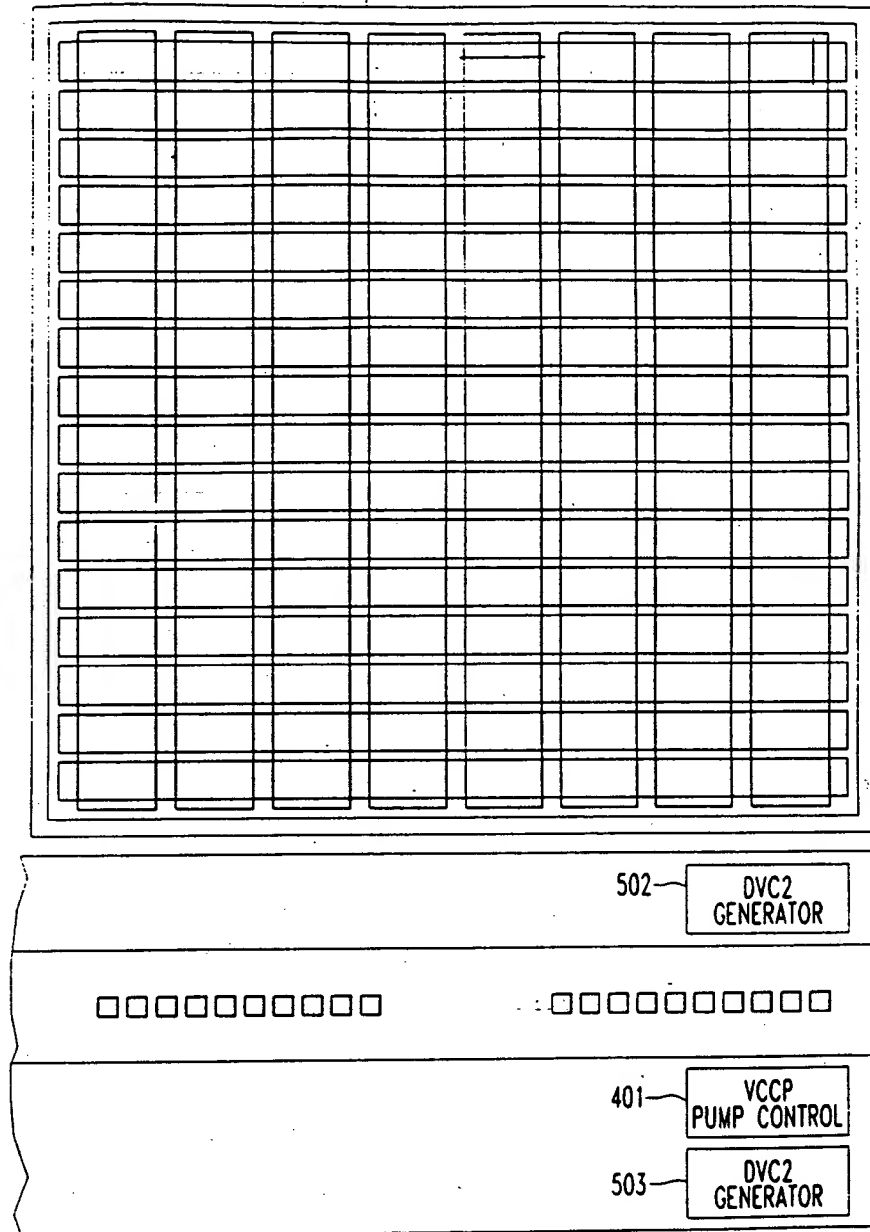
TO FIG. 33D2

FIG. 33D1

TO FIG. 33D1

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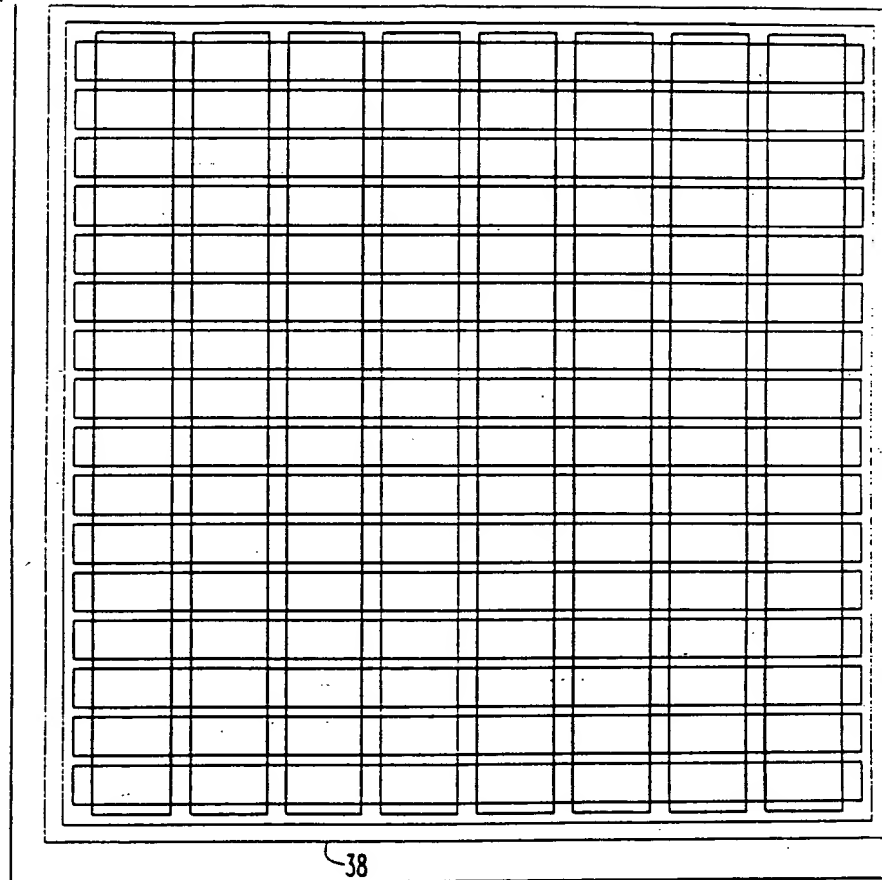
TO
FIG.
33D4

FIG. 33D2

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TO
FIG.
33D1

(SEE FIG. 33E1)

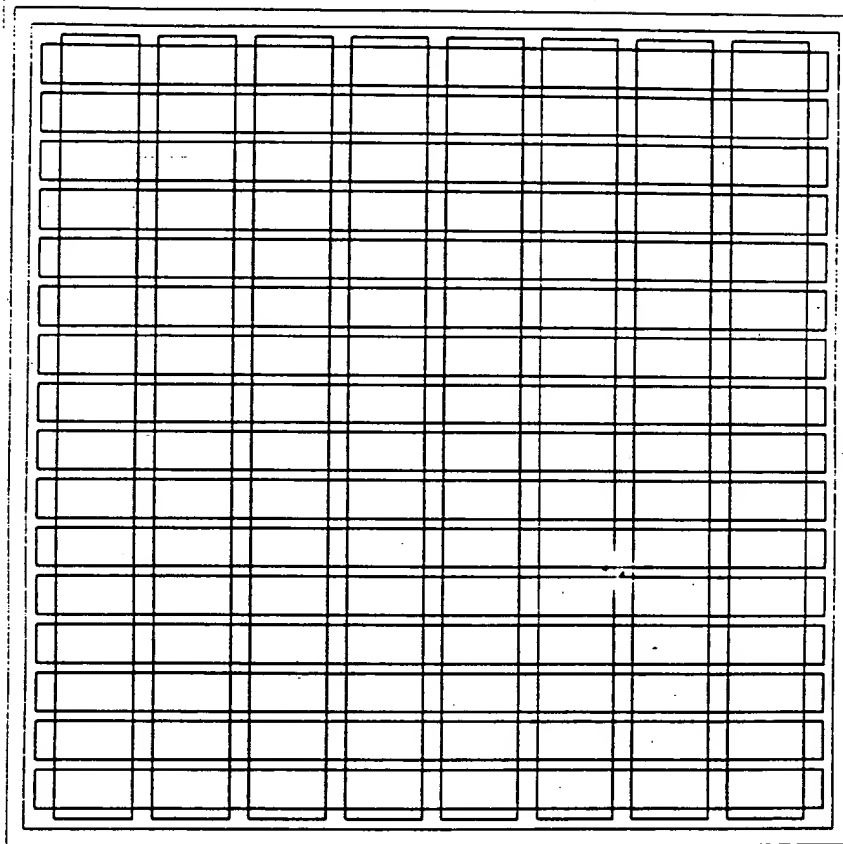


TO FIG. 33D4

FIG. 33D3

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TO
FIG.
33D2



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TO FIG. 33D3

FIG. 33D4

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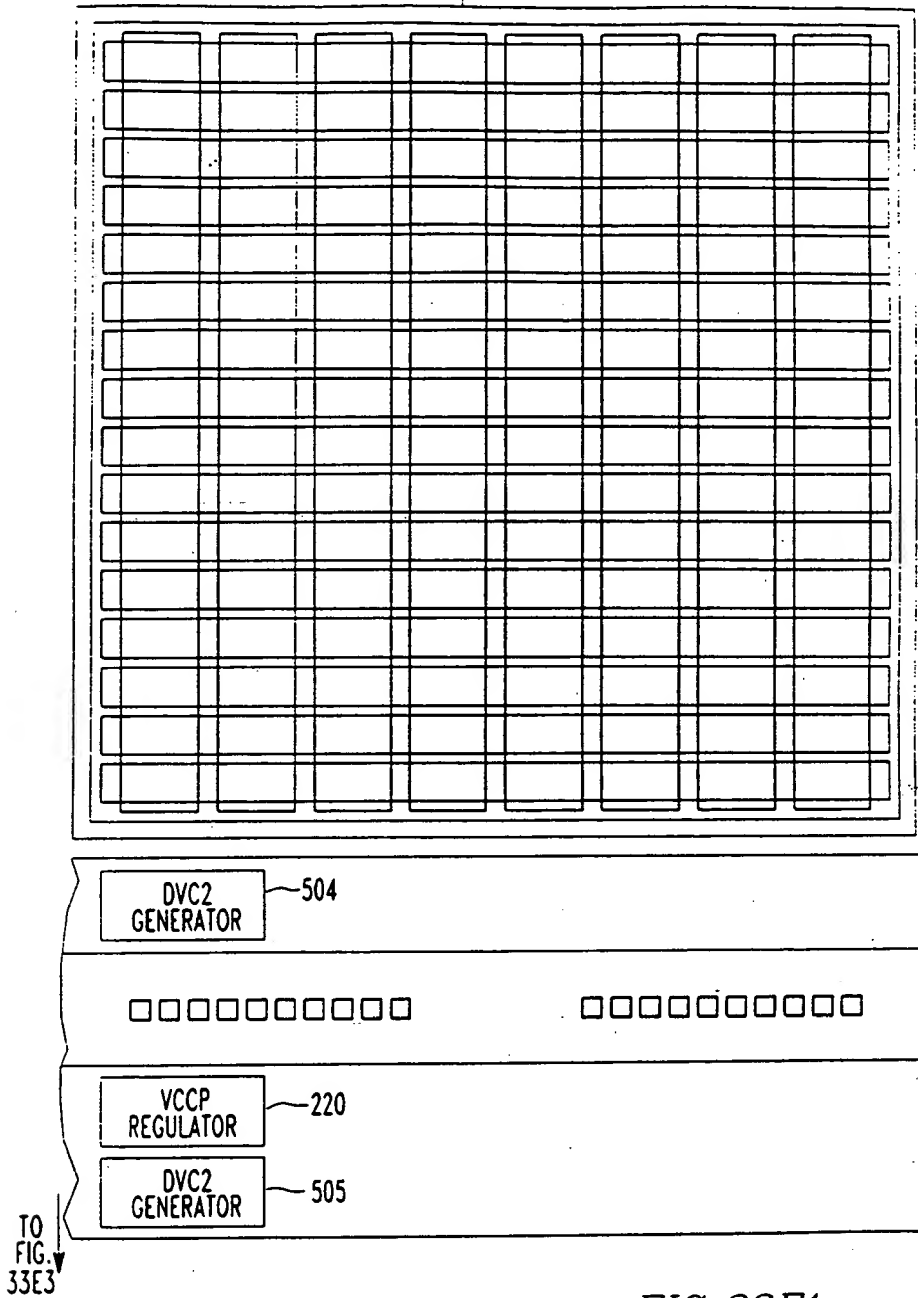


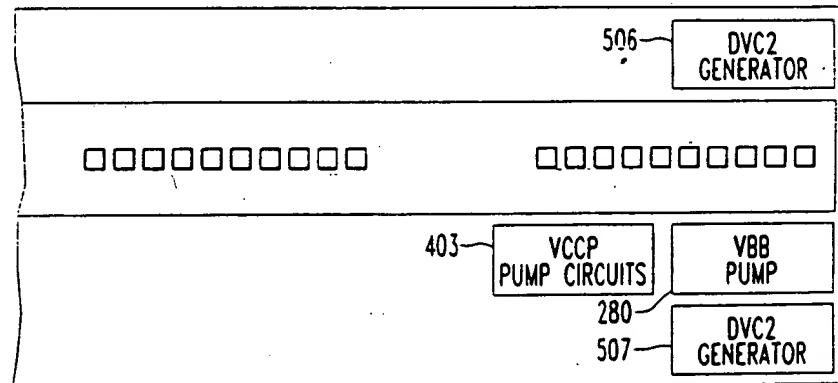
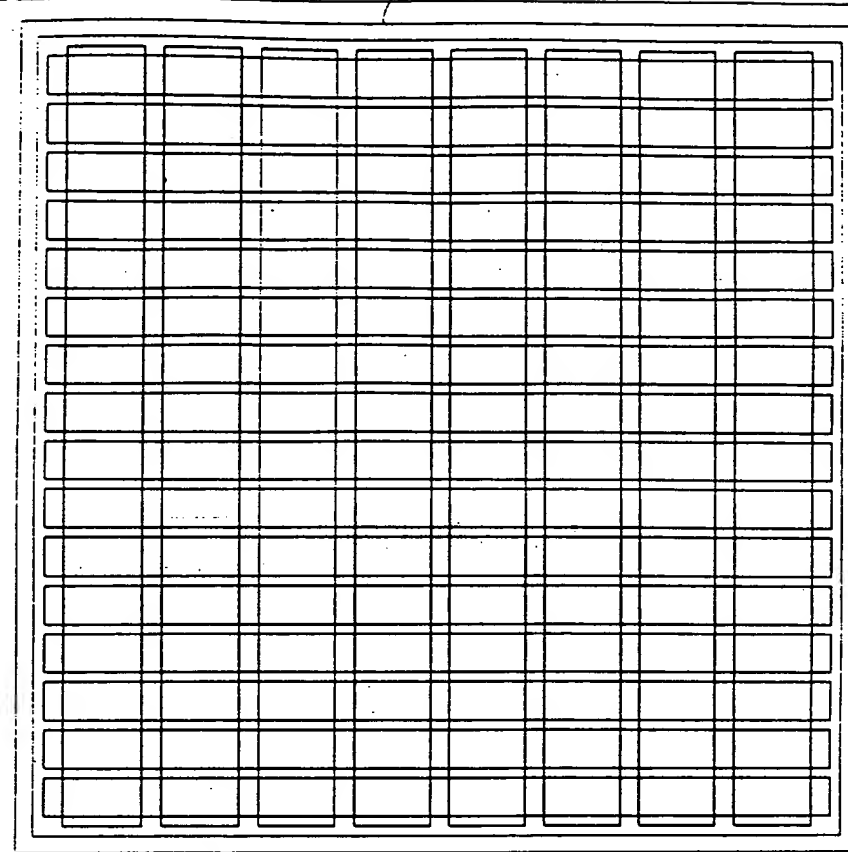
FIG. 33E1

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TO FIG. 33E1

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-10



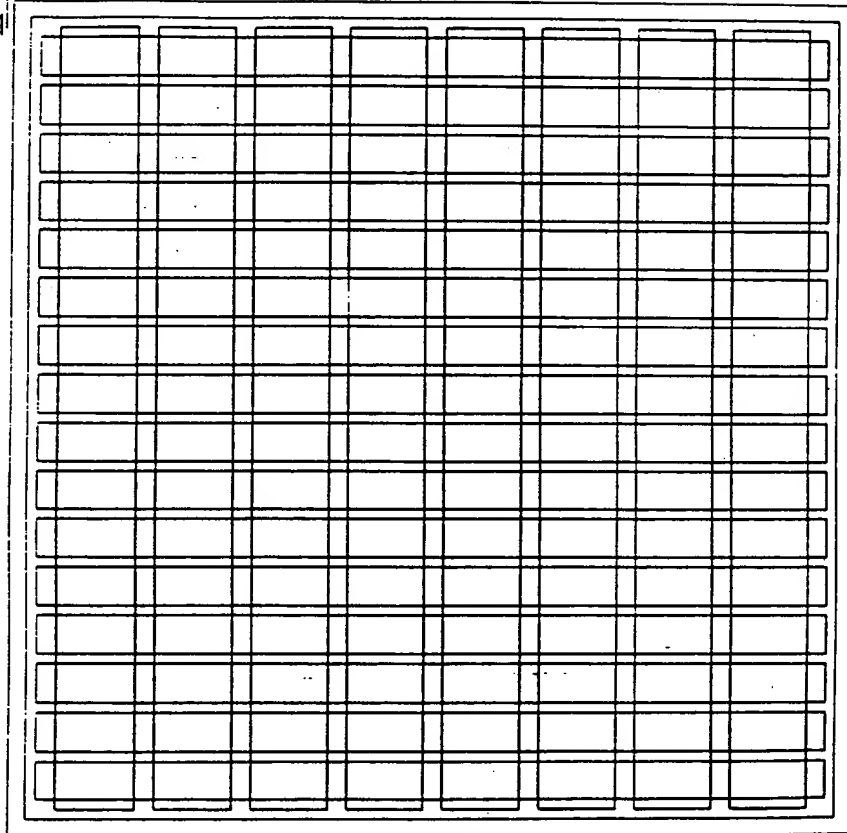
200

TO
FIG.
33E4

FIG. 33E2.

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TO
FIG.
33E11



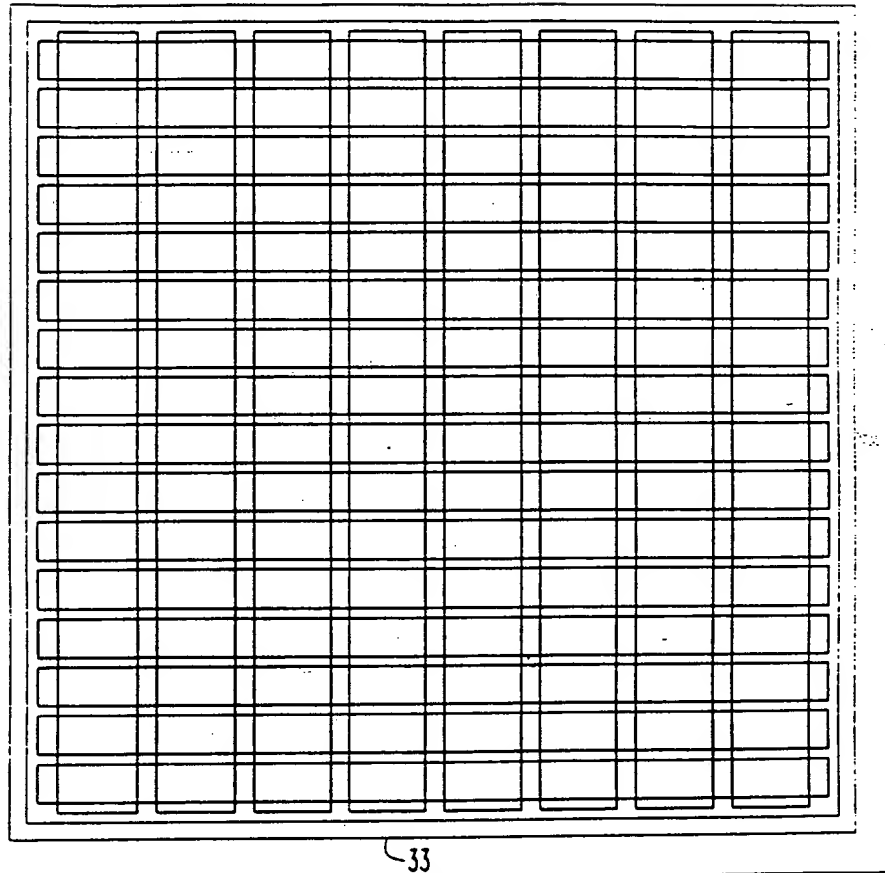
31

TO FIG. 33E4

FIG. 33E3

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TO
FIG.
33E2



TO FIG. 33E3

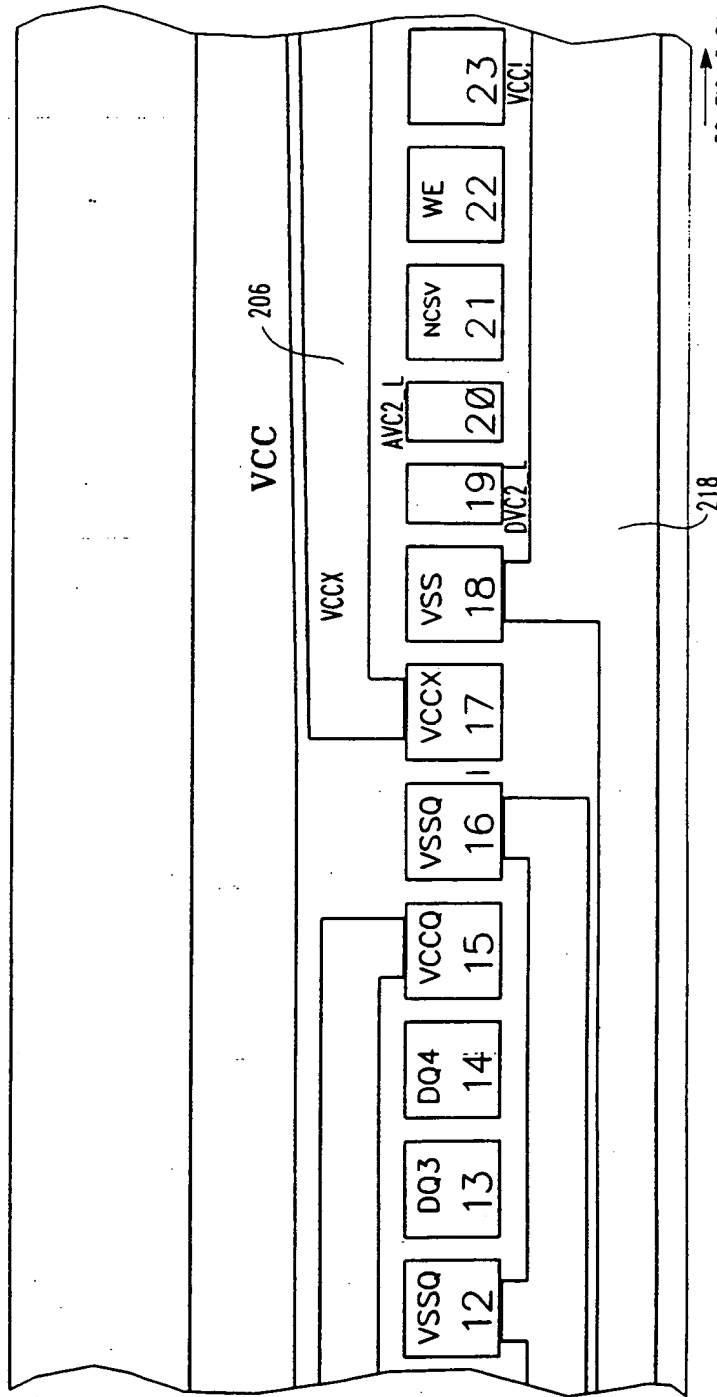
FIG. 33E4

FIG. 31A1

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TO FIG. 34A1

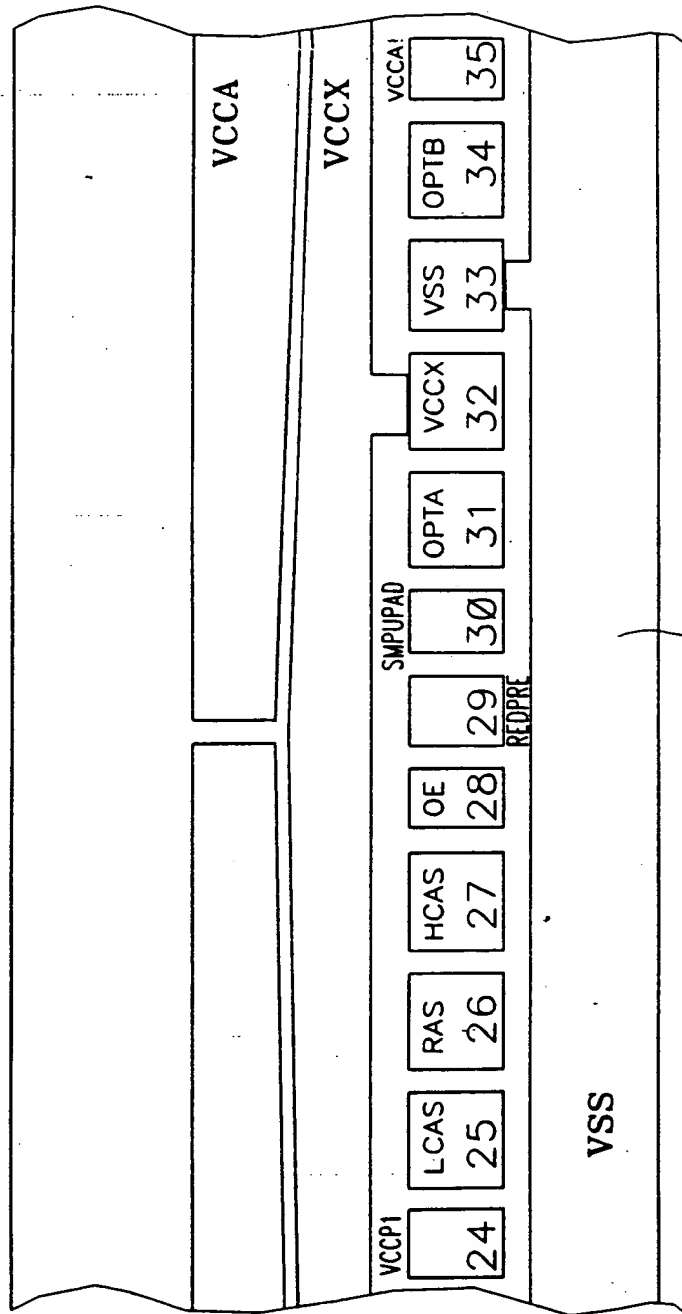


TO FIG. 34B1

FIG. 34A2

100290-1258860

TO FIG. 34A2

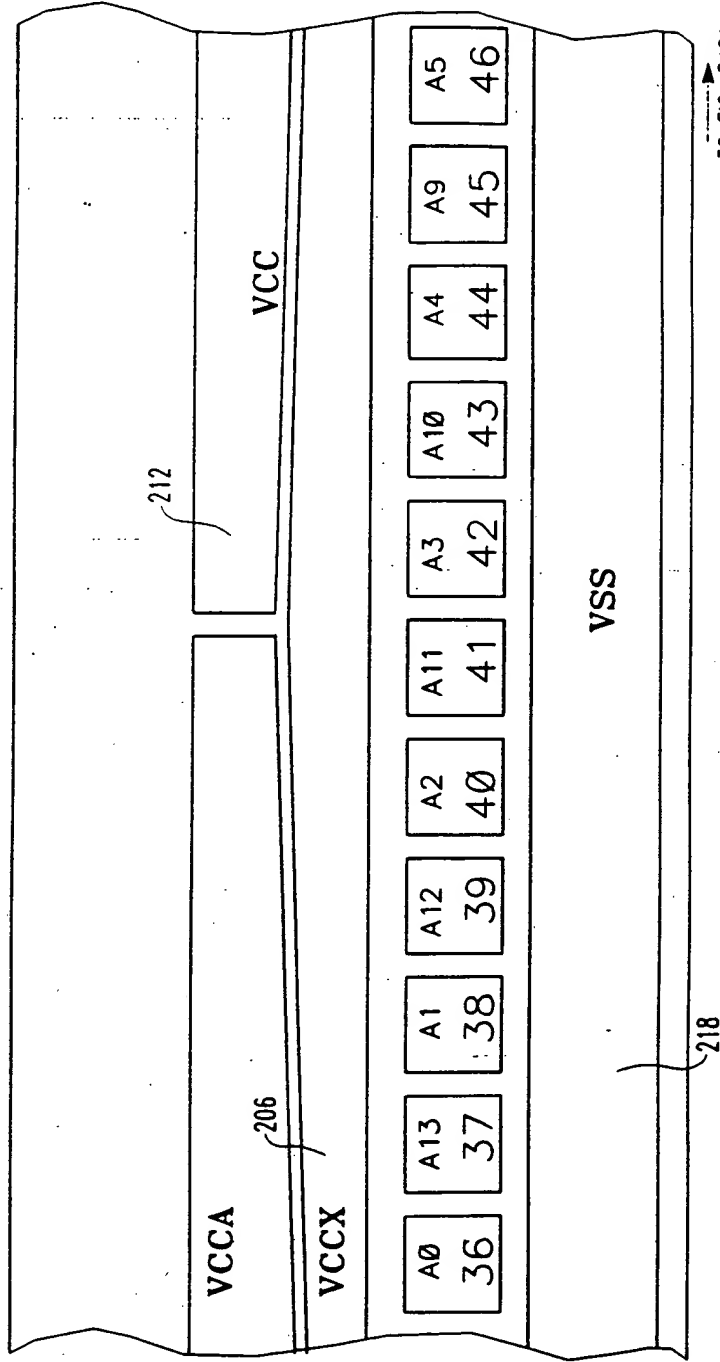


TO FIG. 34B2

FIG. 34B1

1002500-1258860

TO FIG. 34B1



TO FIG. 34C1

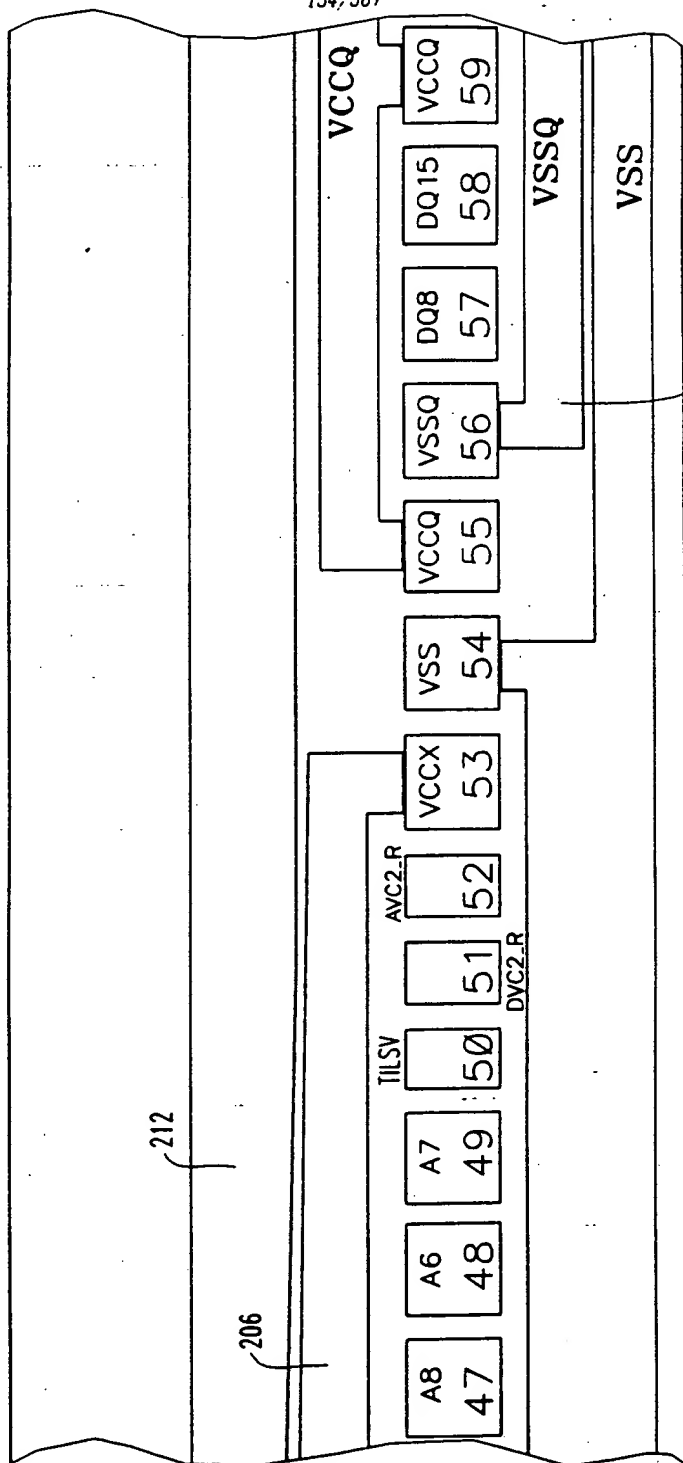
FIG. 34B2

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TO FIG. 34B2



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TO FIG. 34C2

FIG. 34C1

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TO FIG. 34C1

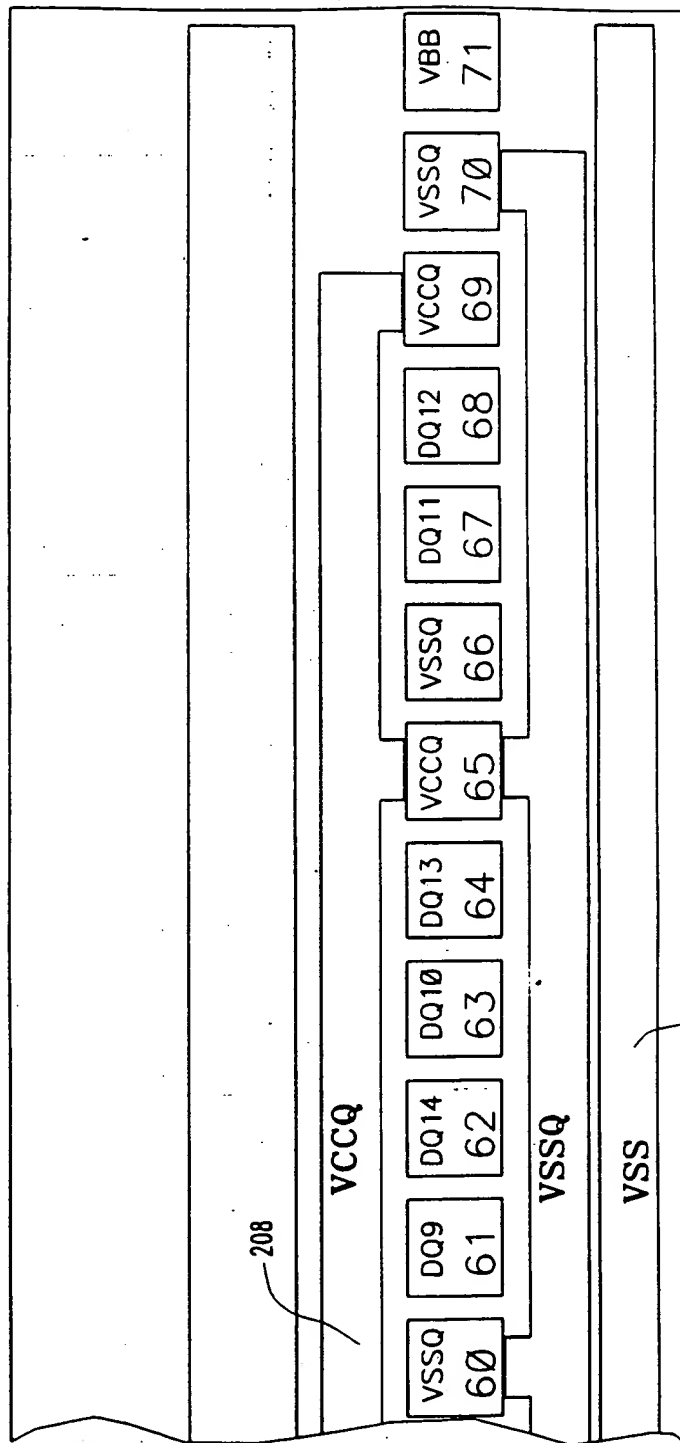


FIG. 34C2

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100290-11258860

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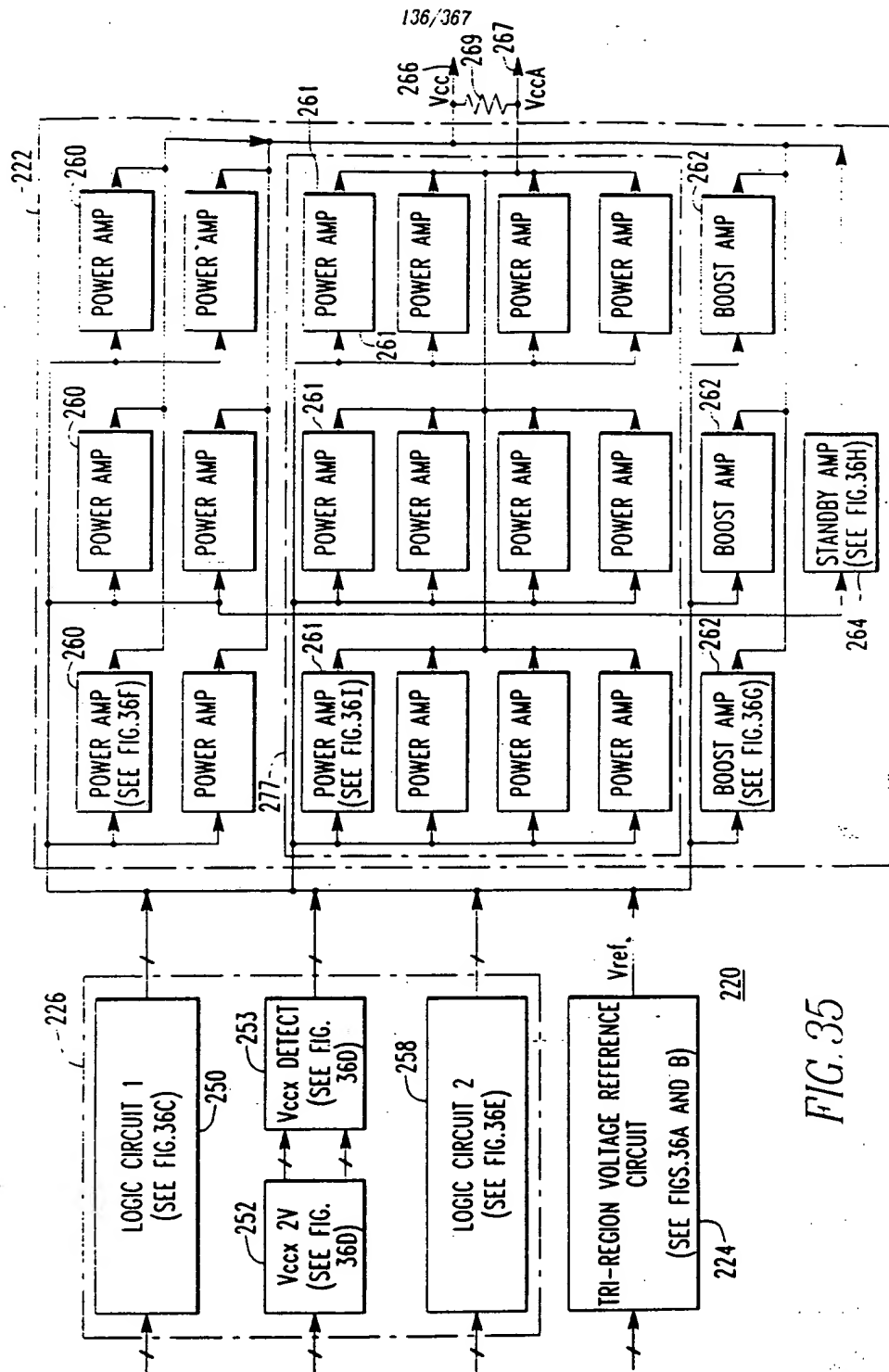


FIG. 35

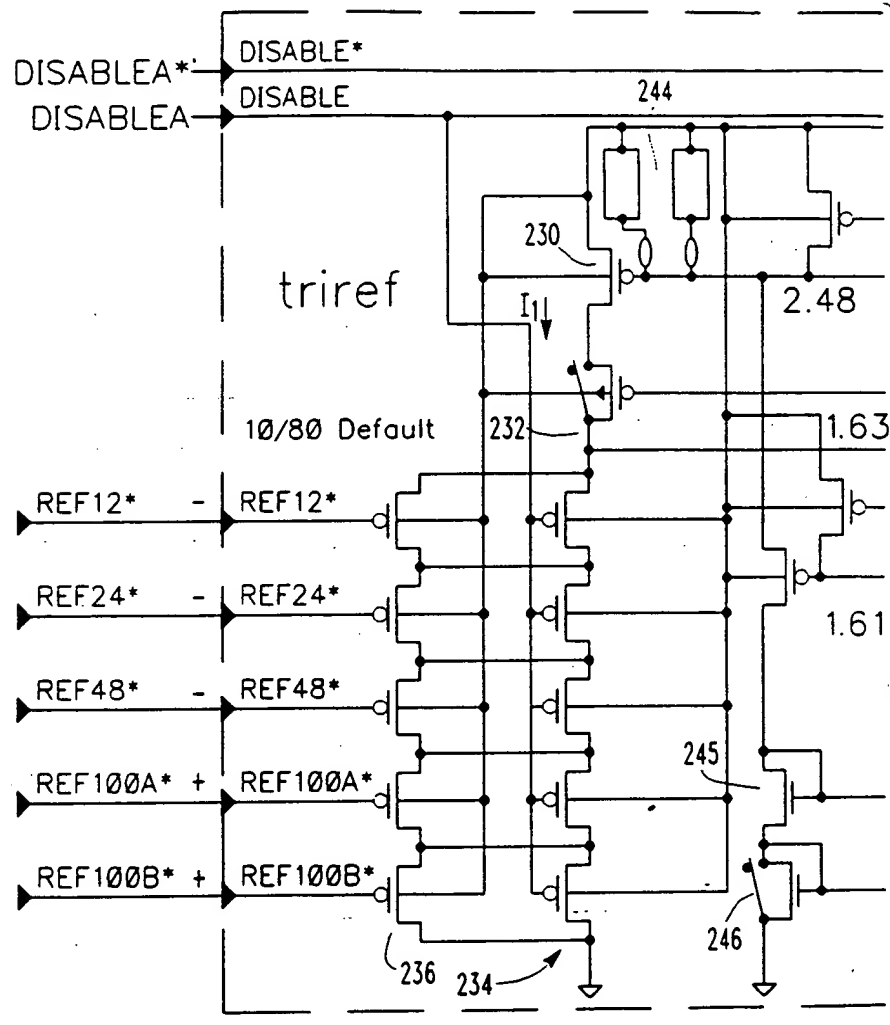


FIG. 36A1

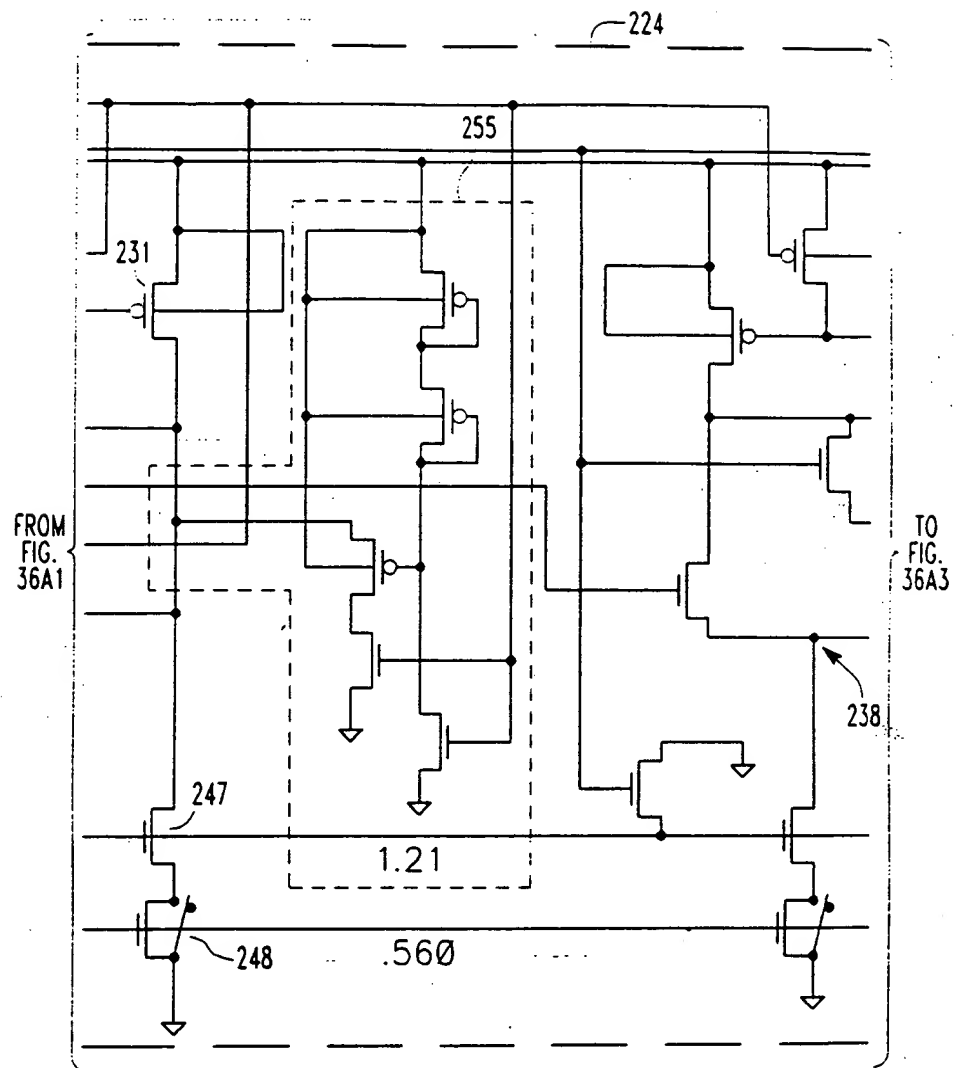


FIG. 36A2

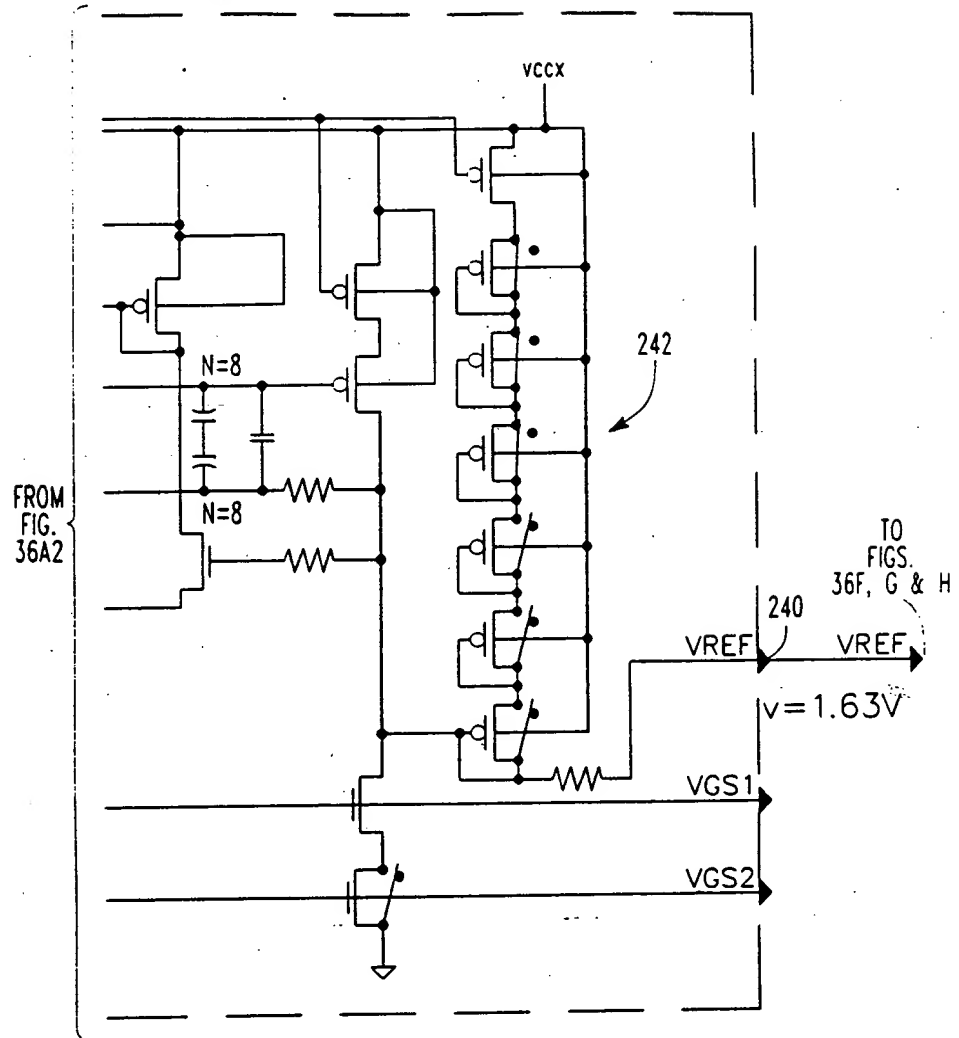


FIG. 36A3.

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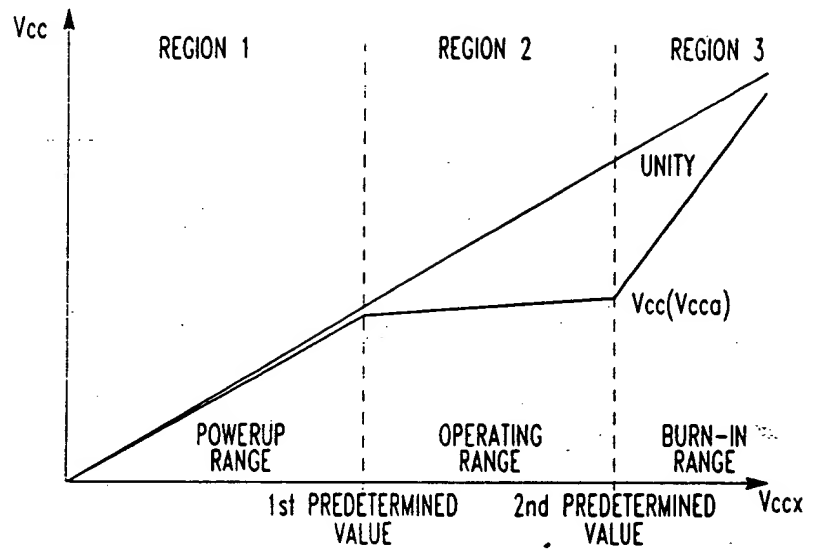
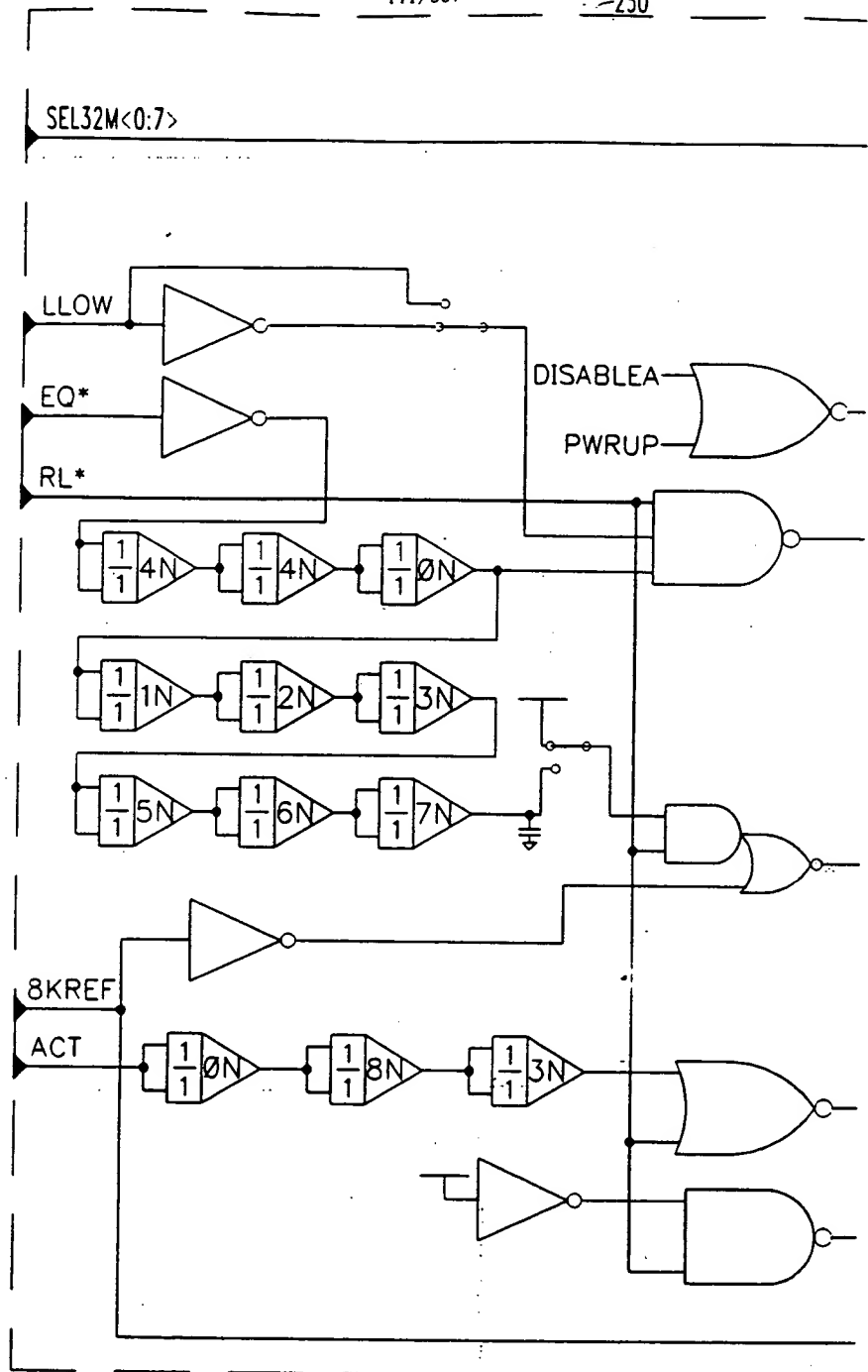


FIG. 36B



TO
FIG.
36C2

FIG. 36C1

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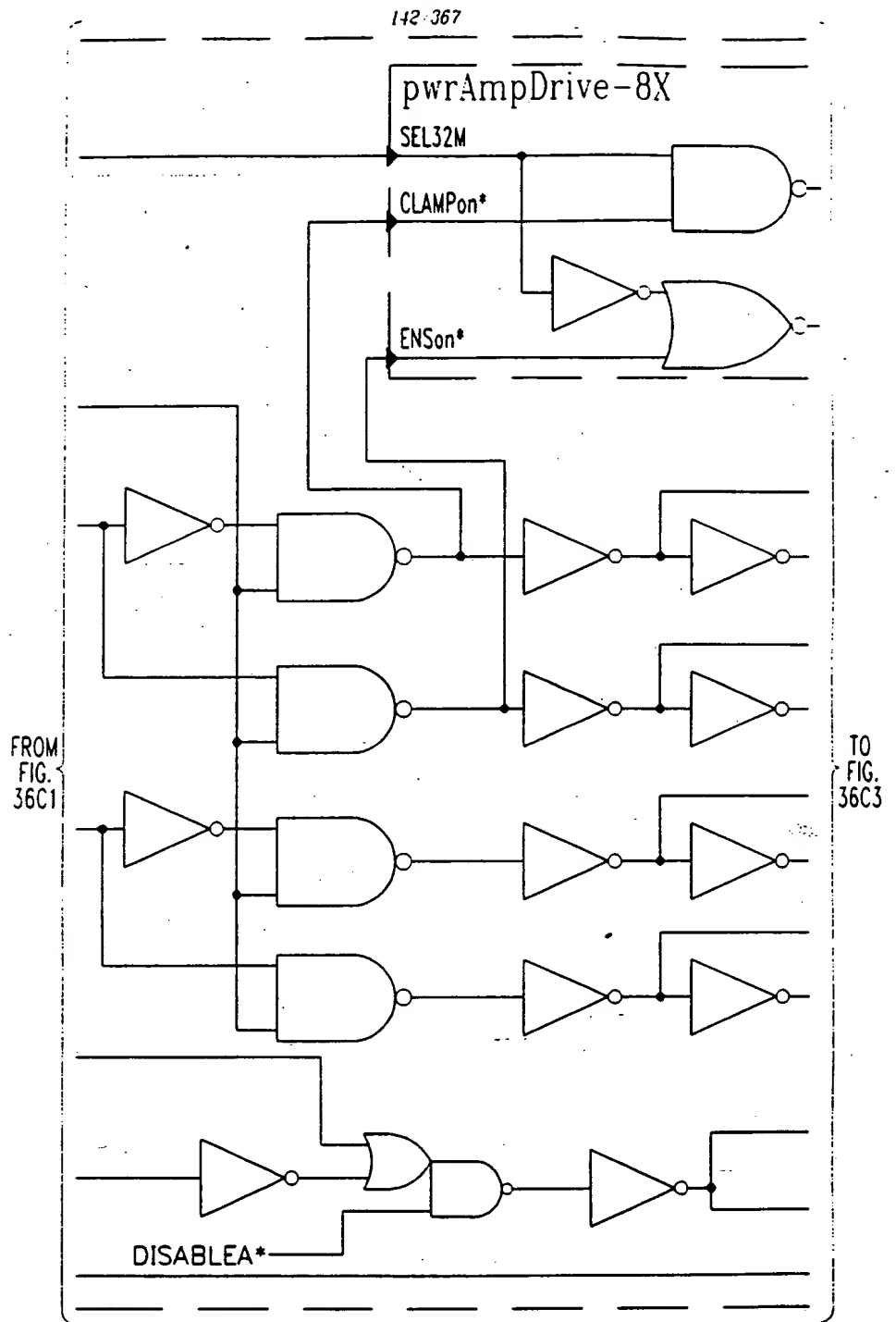


FIG. 36C2

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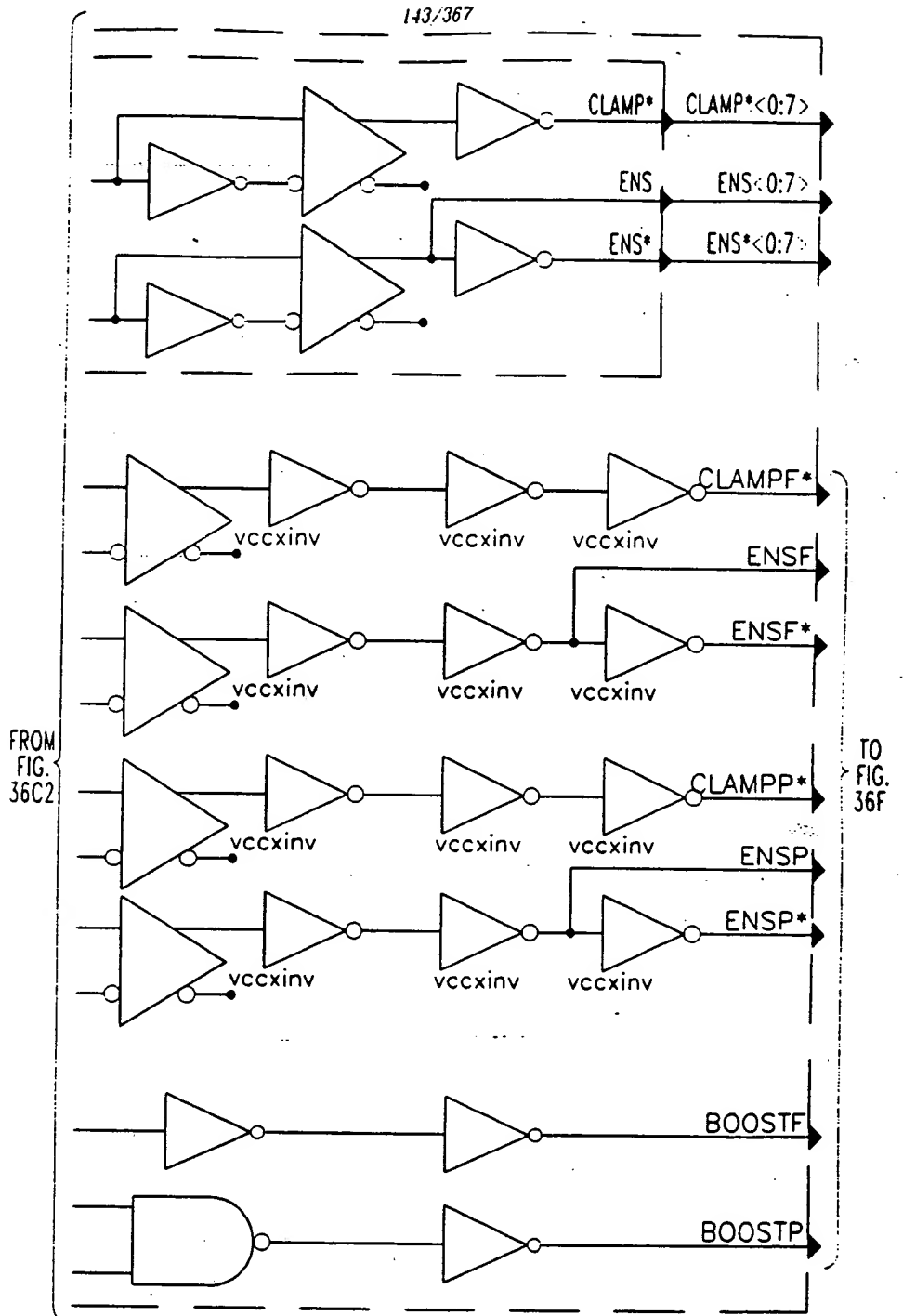


FIG. 36C3

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11
1002960-125860

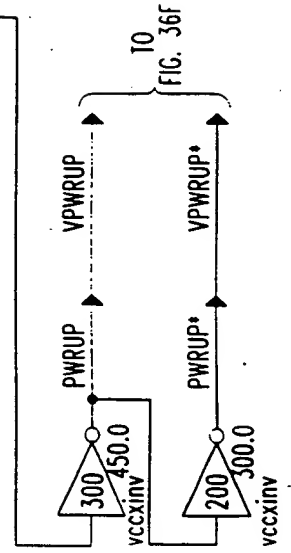
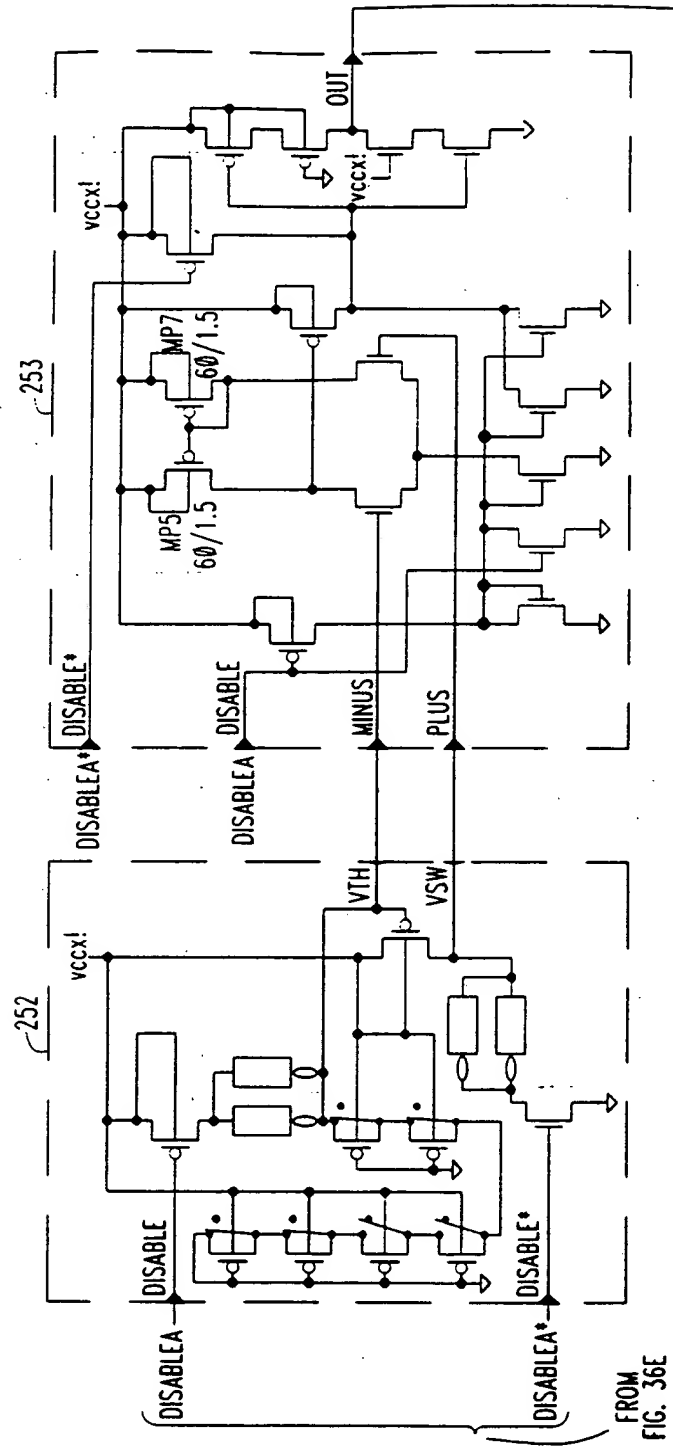
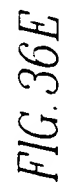


FIG. 36D

三



100246-1258860

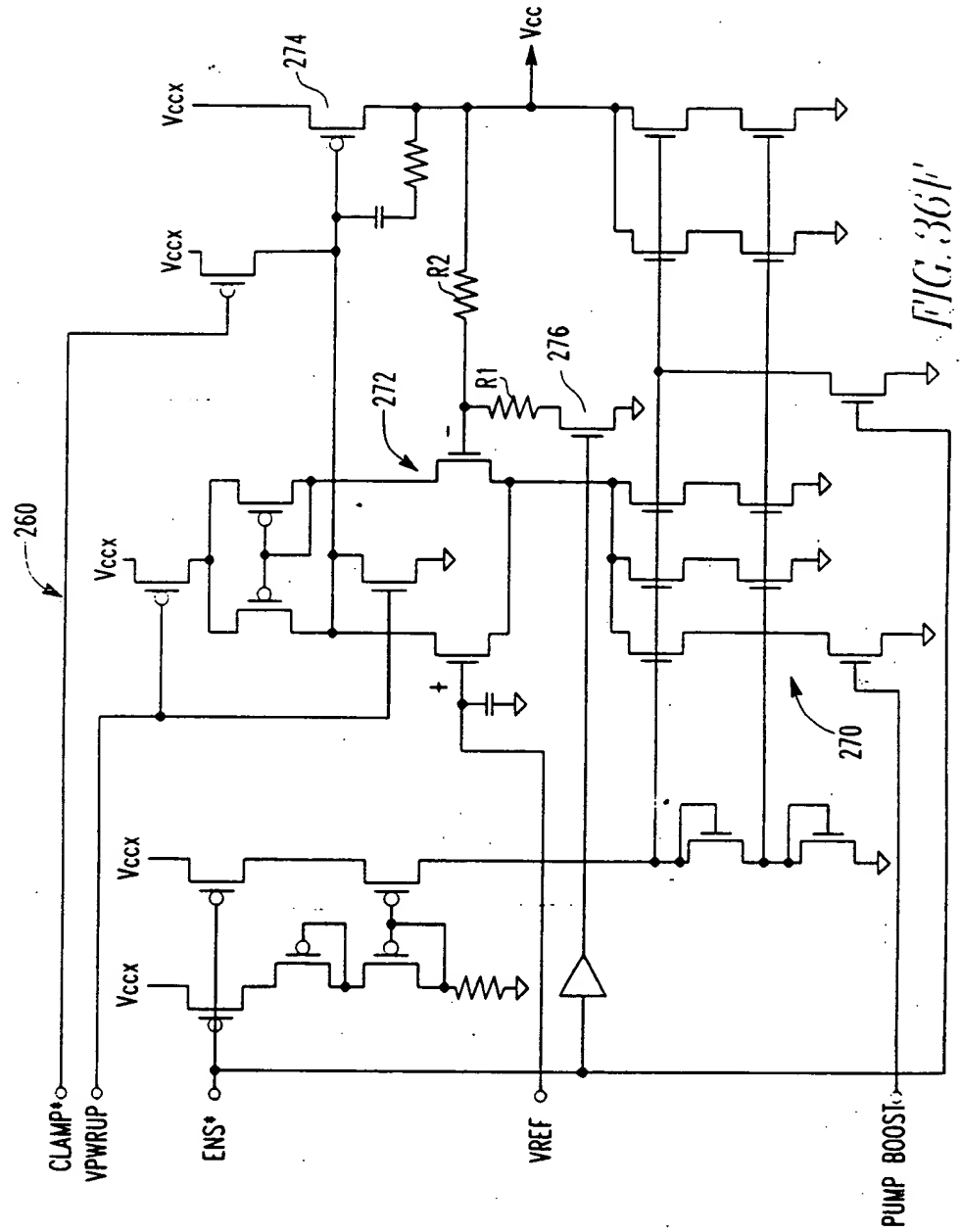


FIG. 36F

100296-1258860

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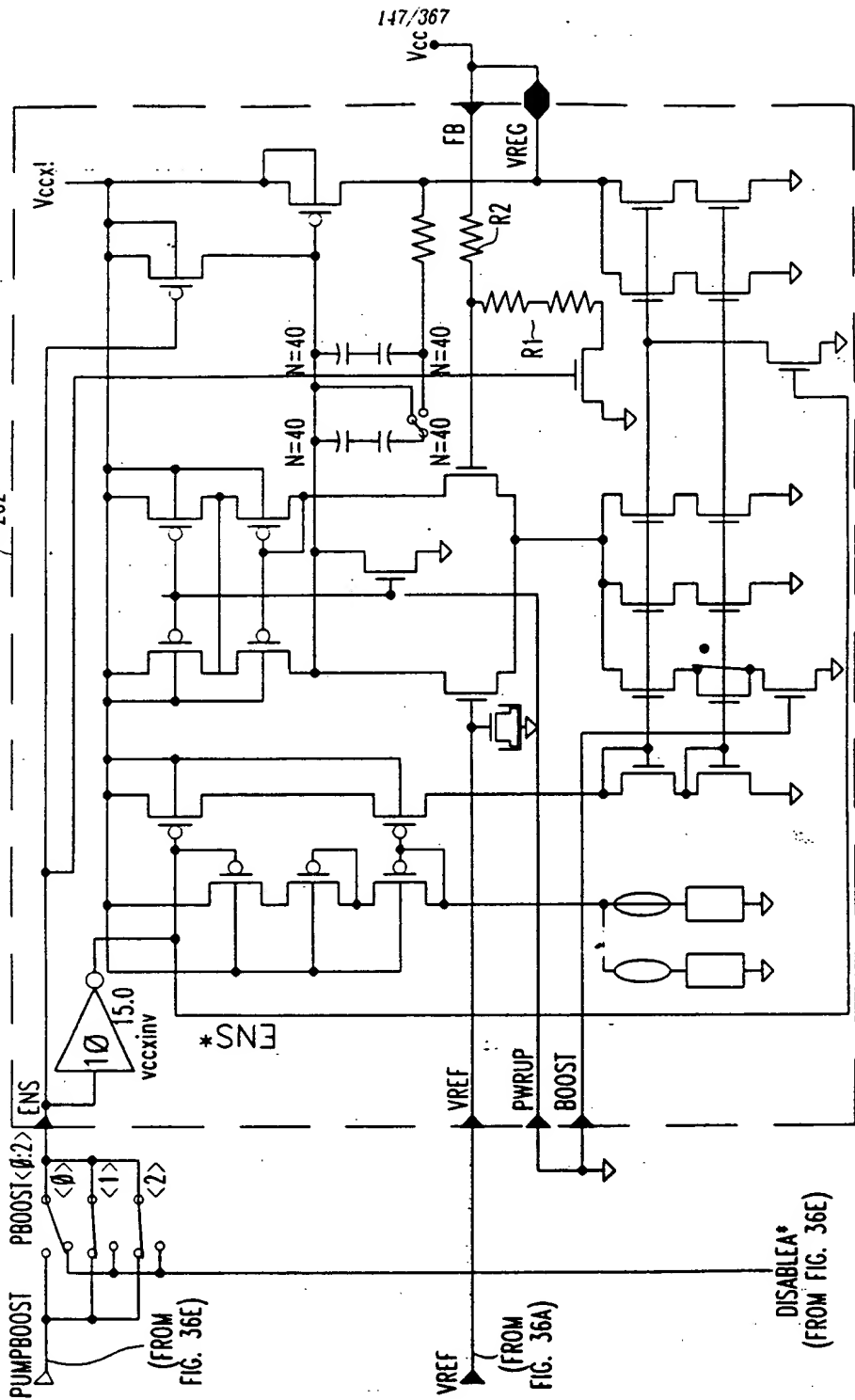


FIG. 36G

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100290 21258860

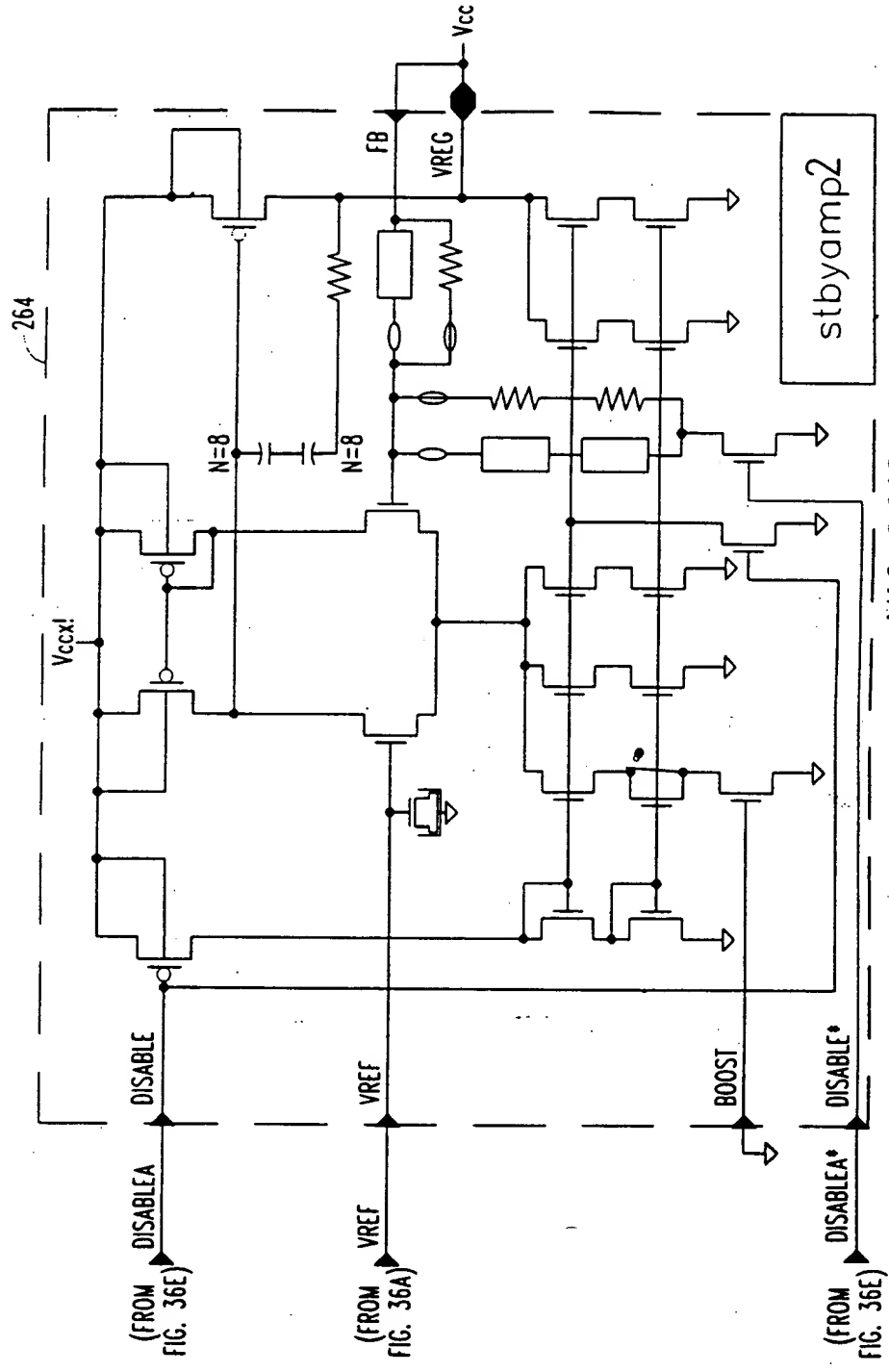


FIG. 36H

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11
FO0290-1258860

261

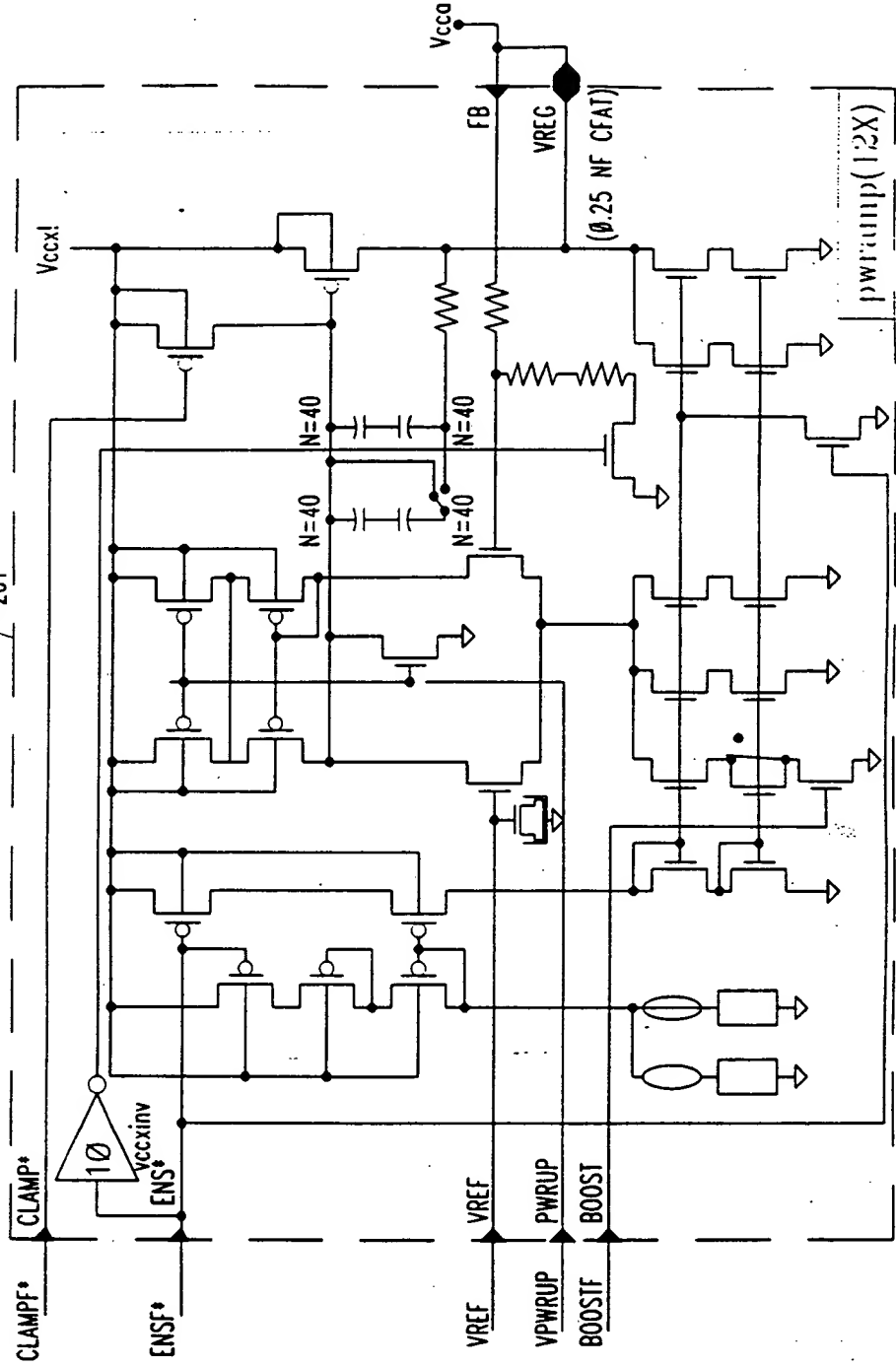


FIG. 361

4.14

100240-1258860

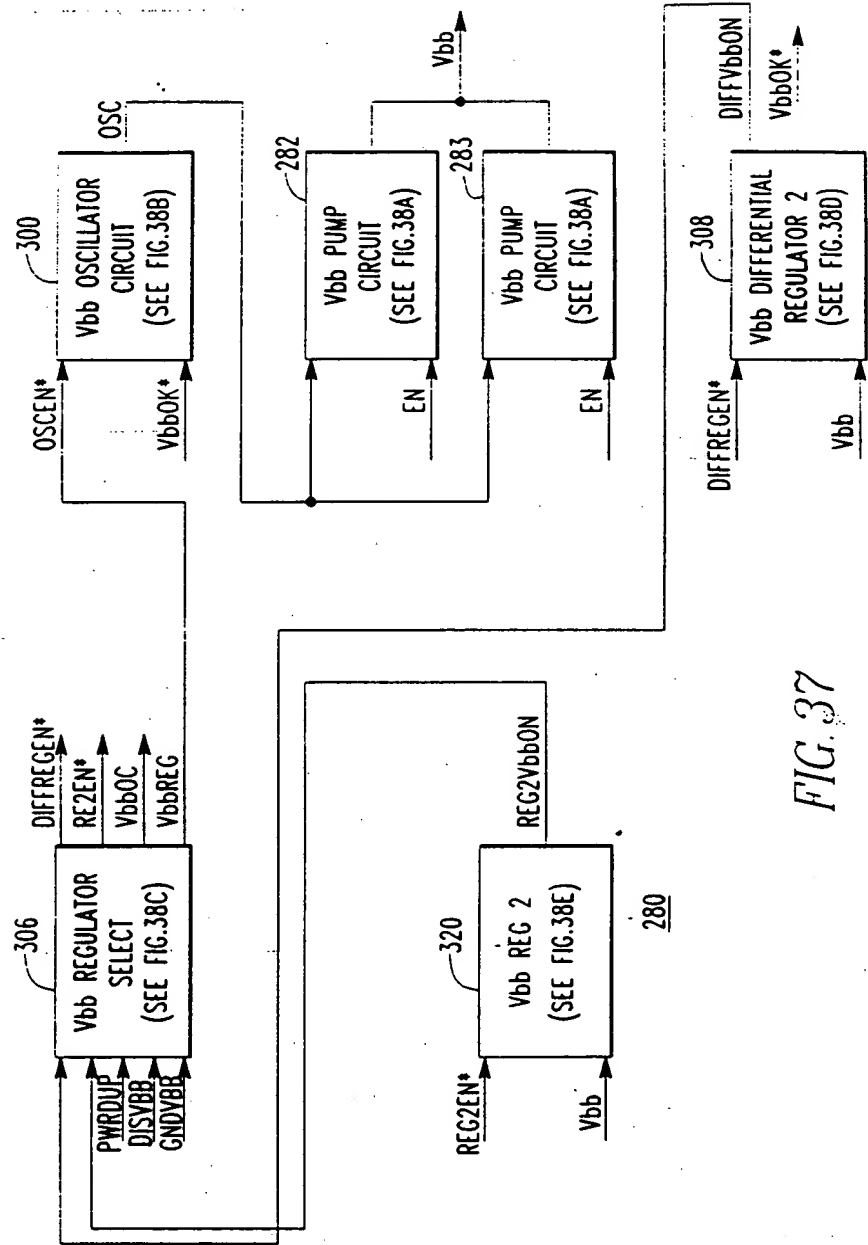
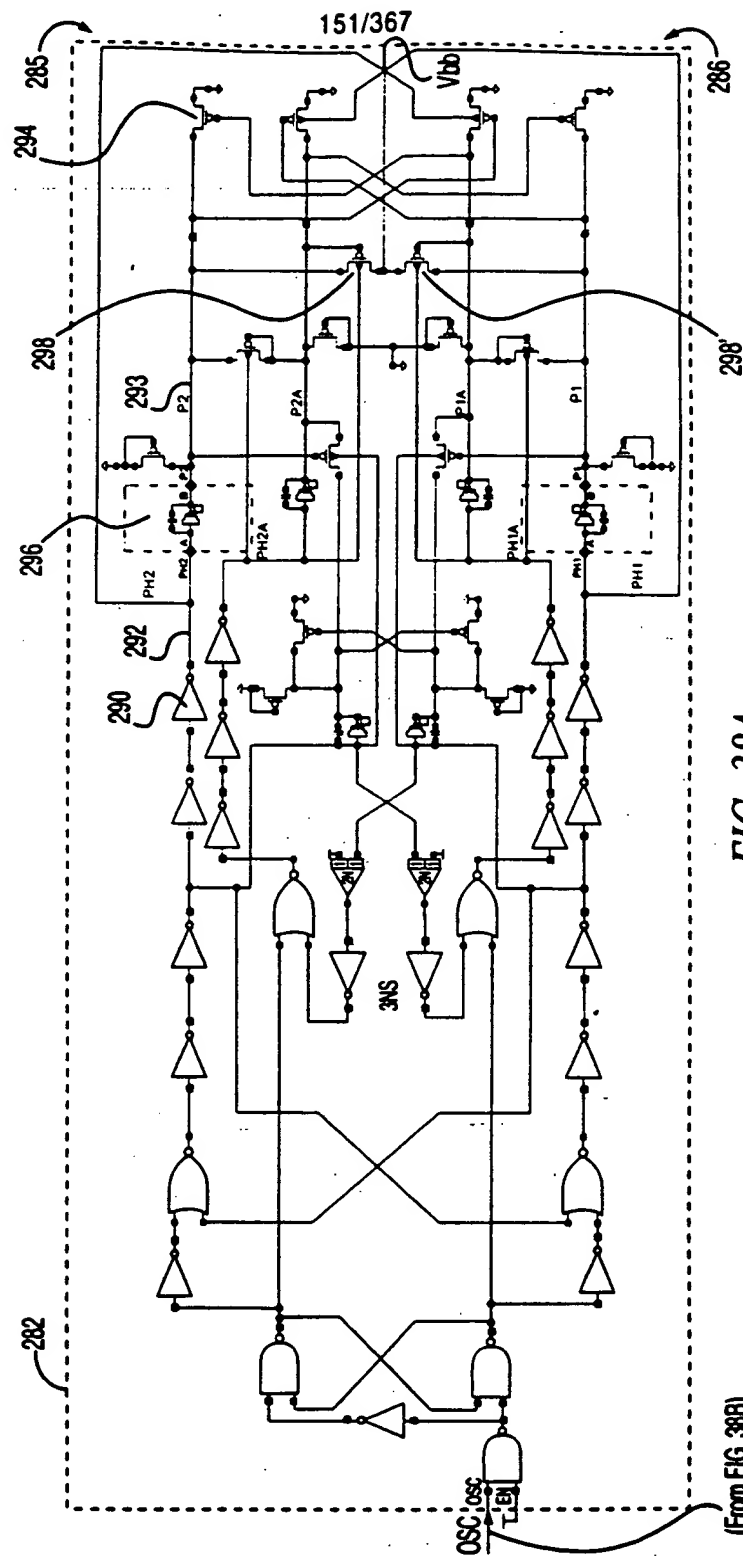
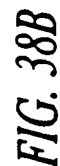


FIG. 37

00296-1258860





100290-21258860

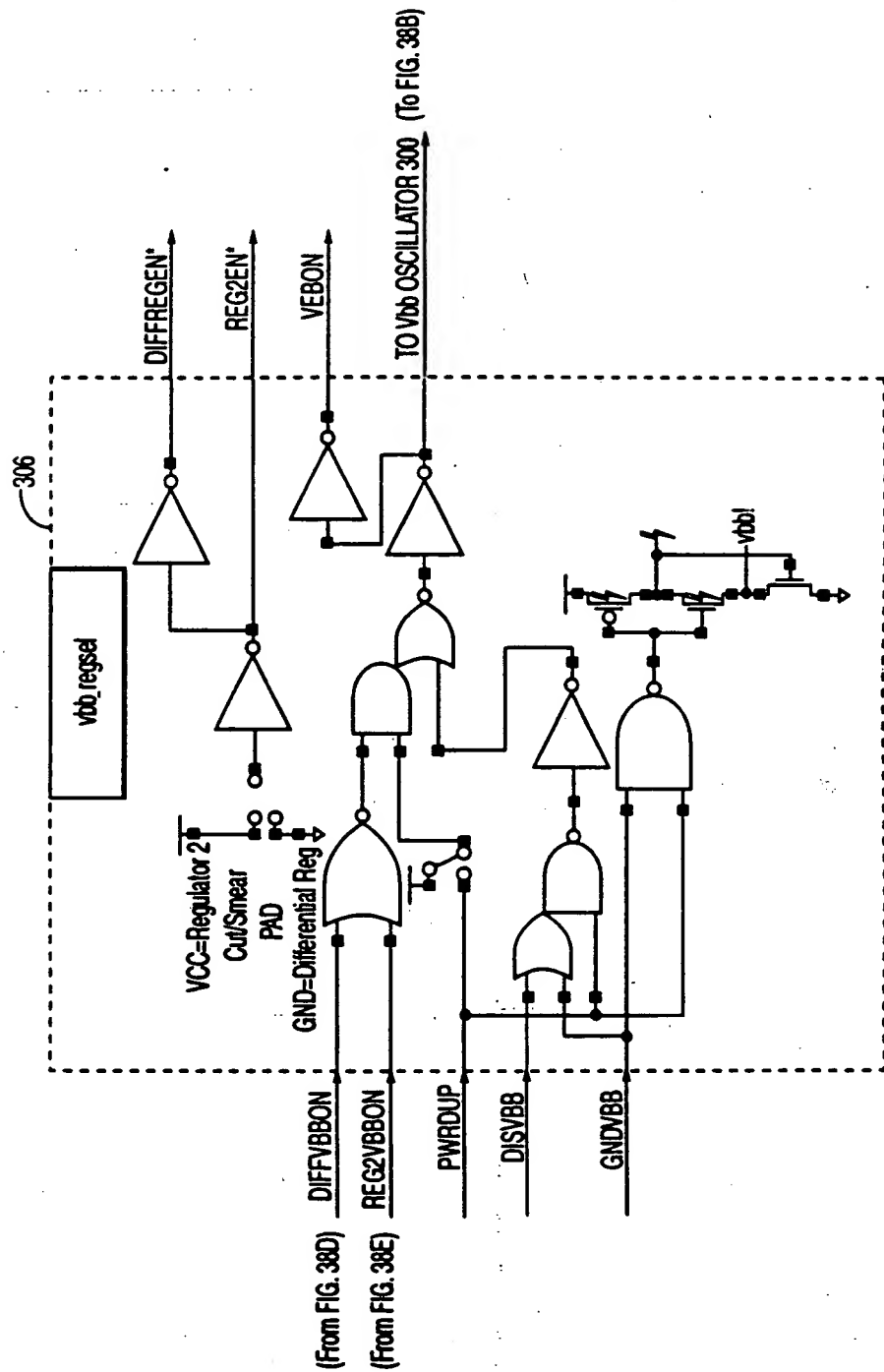


FIG. 38C

5

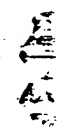


FIG. 38D

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100240-1258860

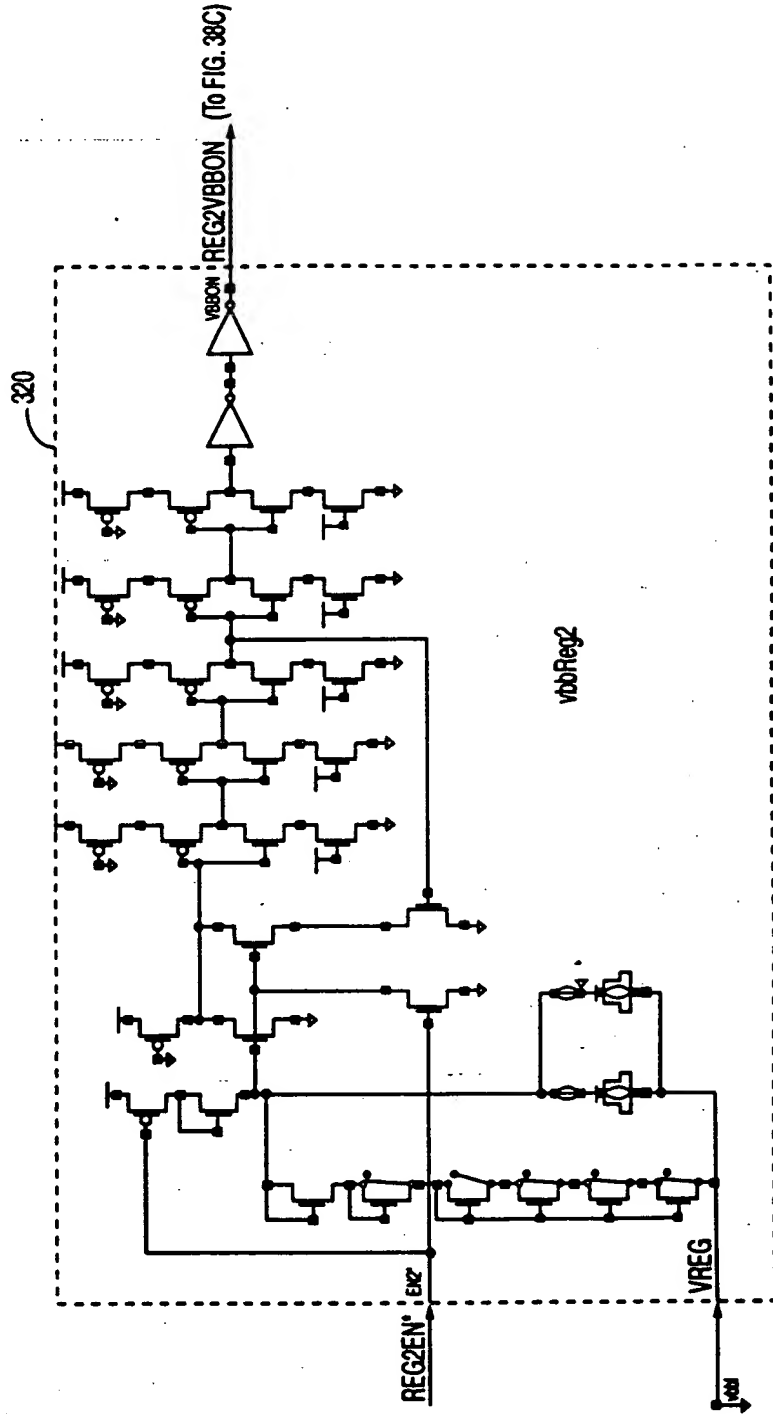


FIG. 38E

1002301/1258860

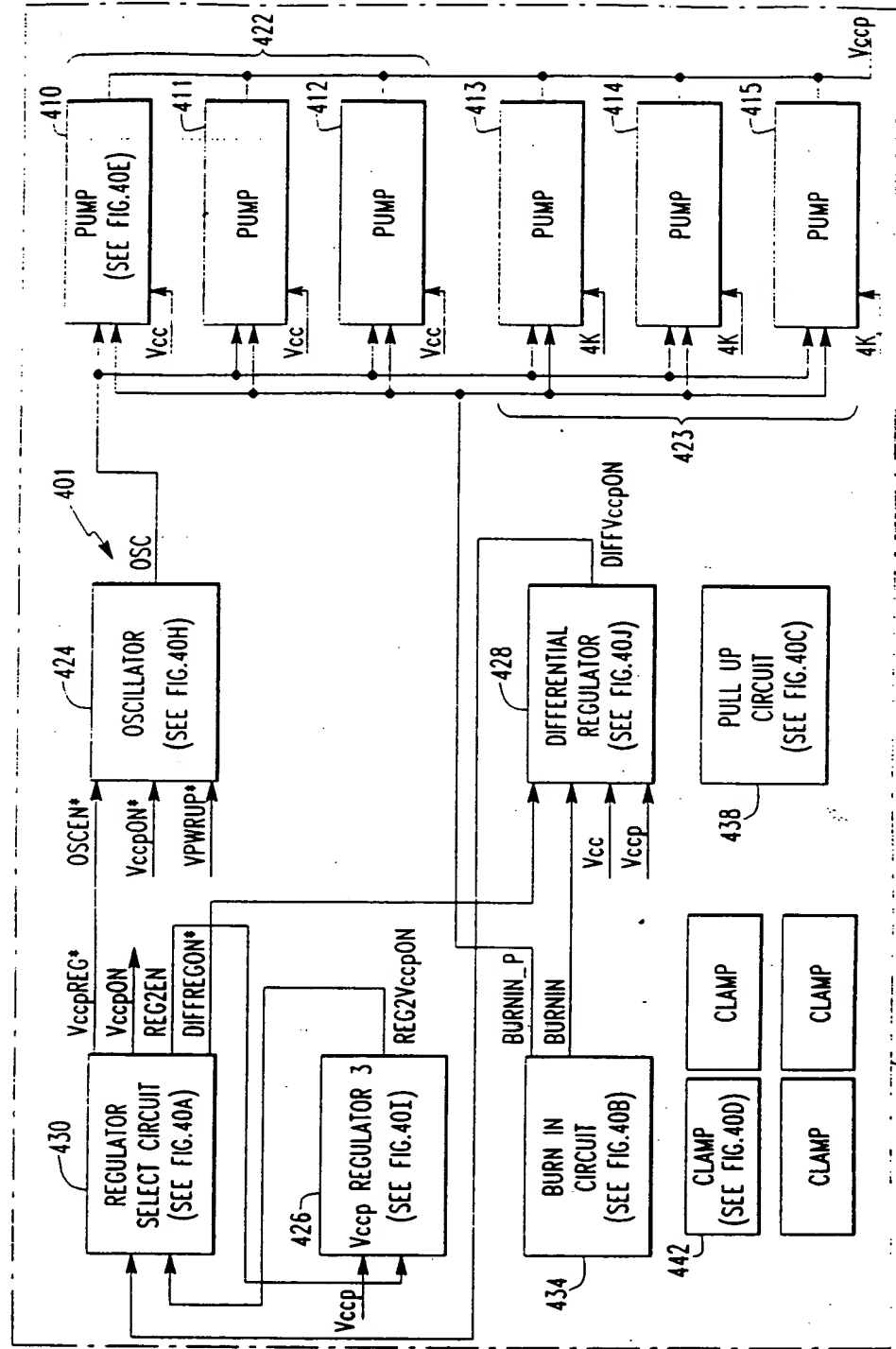


FIG. 39

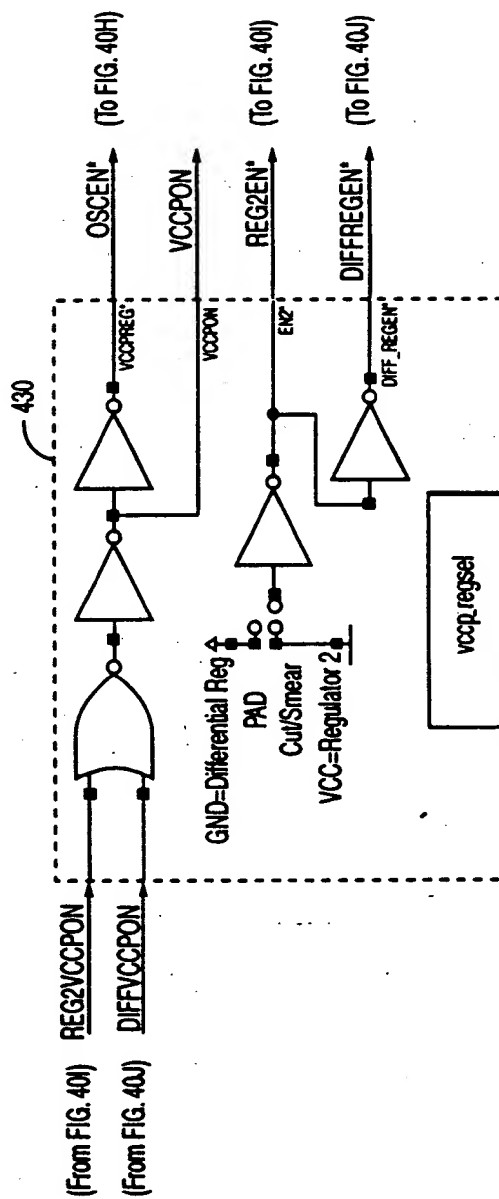
[illegible]

FIG. 40A

100290-1258860

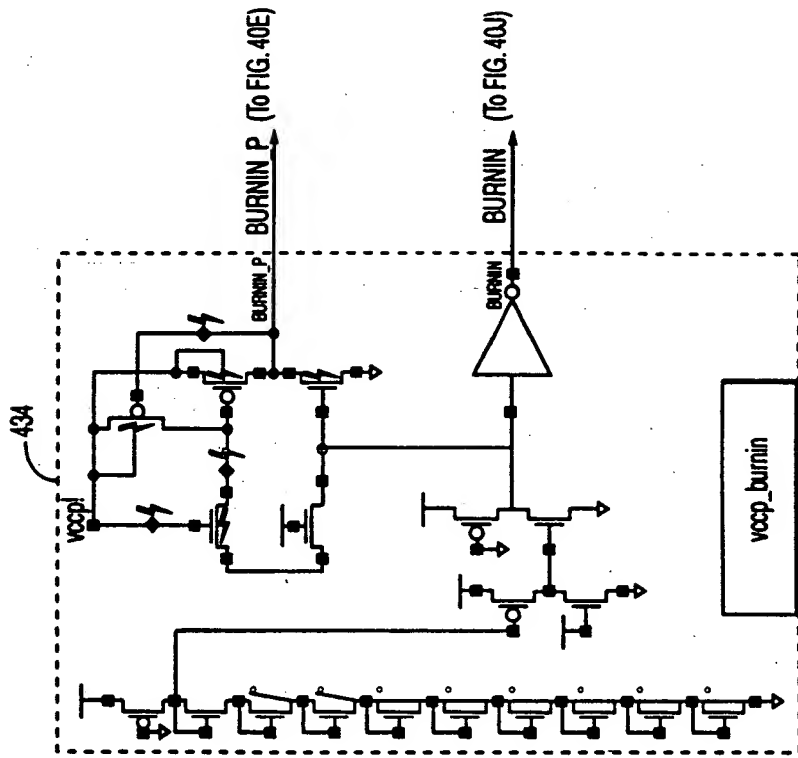


FIG. 40B

100290-17258860

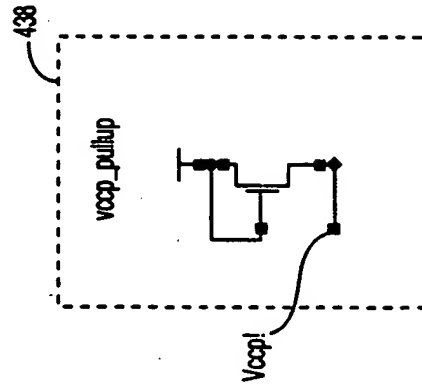


FIG. 40C

100290-17258860

100290-21258860

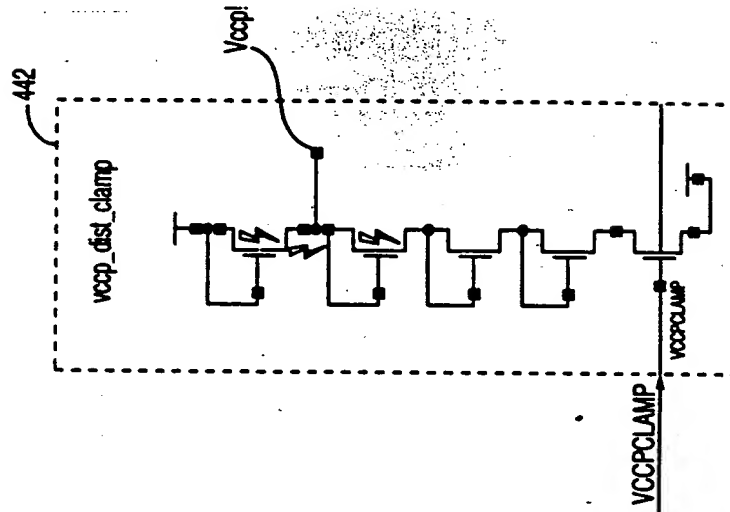


FIG. 40D

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100290-1258860

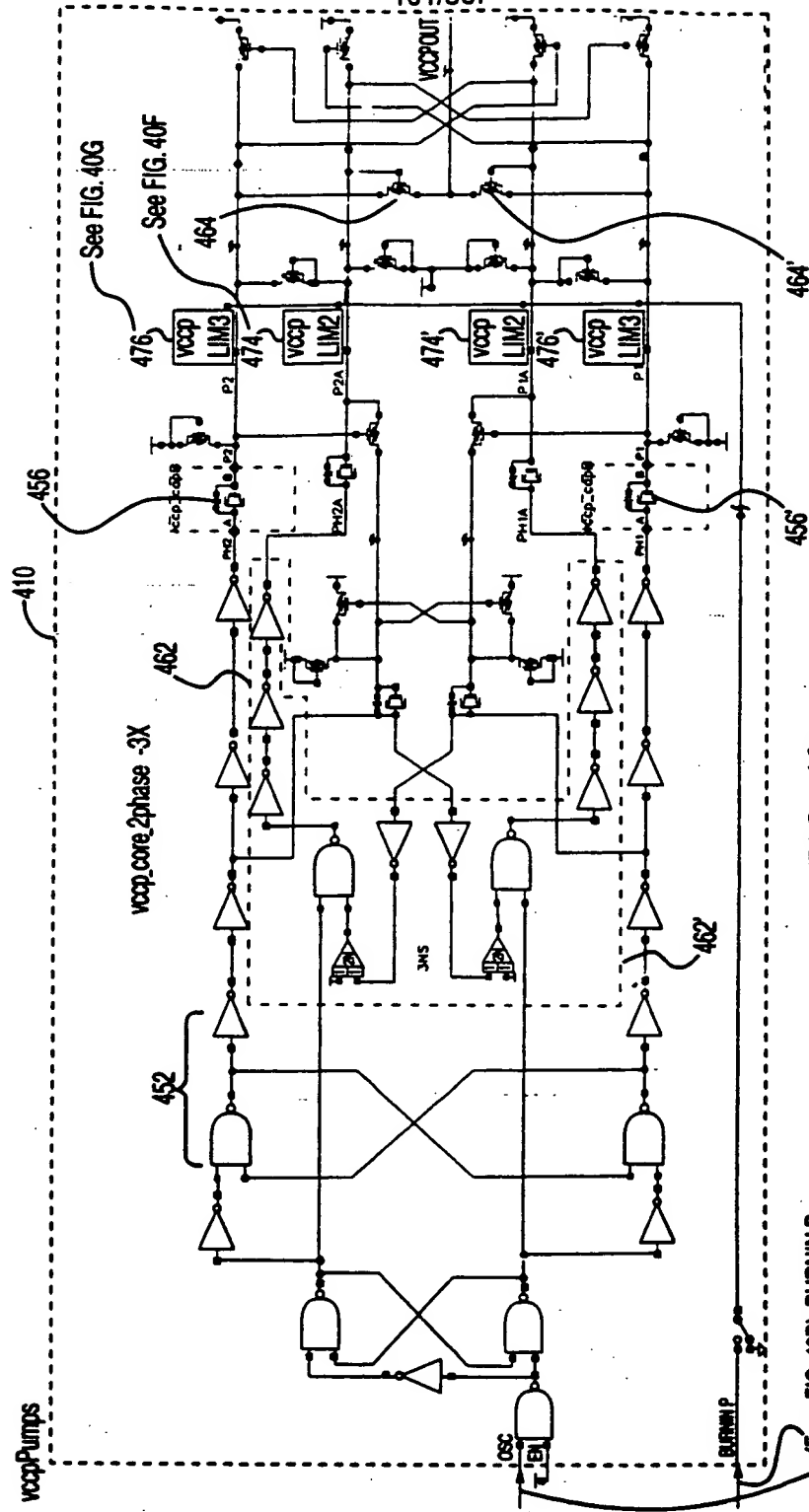
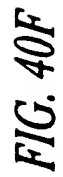


FIG. 40E

(From FIG. 40B) BURNNIN P

(From FIG. 40H) VCCPOSC



100290-1258860

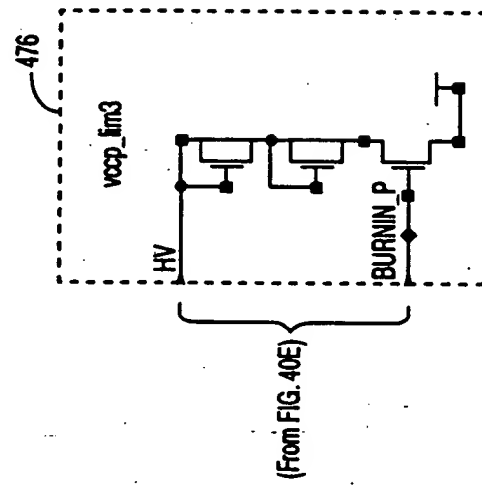
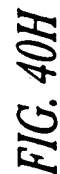


FIG. 40G

Abstract



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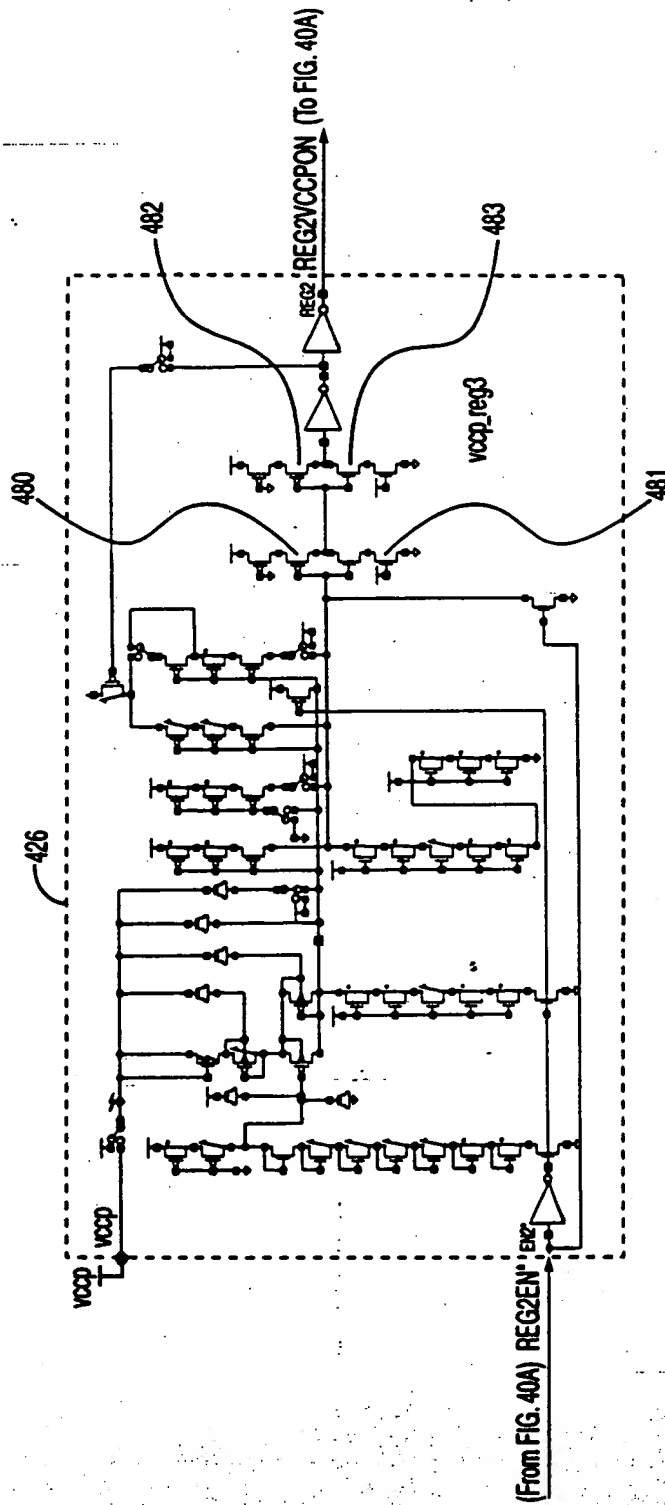


FIG. 40I

100290/1258860

100290-21258860

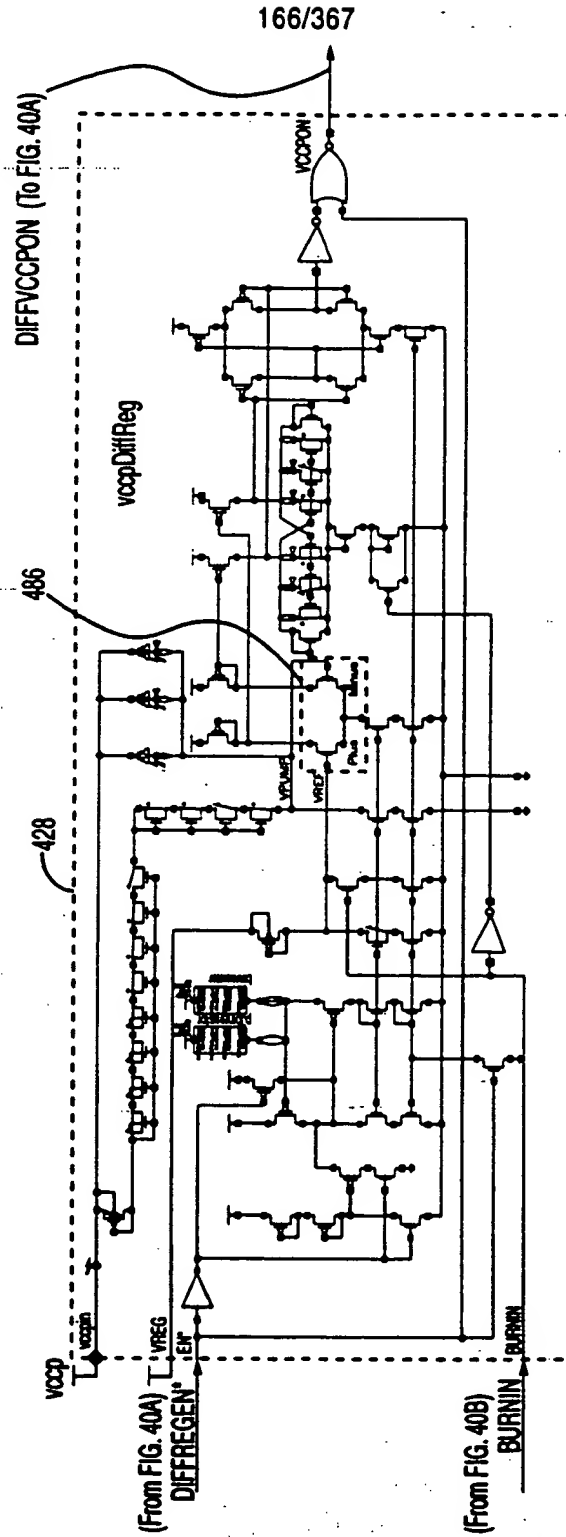


FIG. 40J

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11
FO0290-7258860

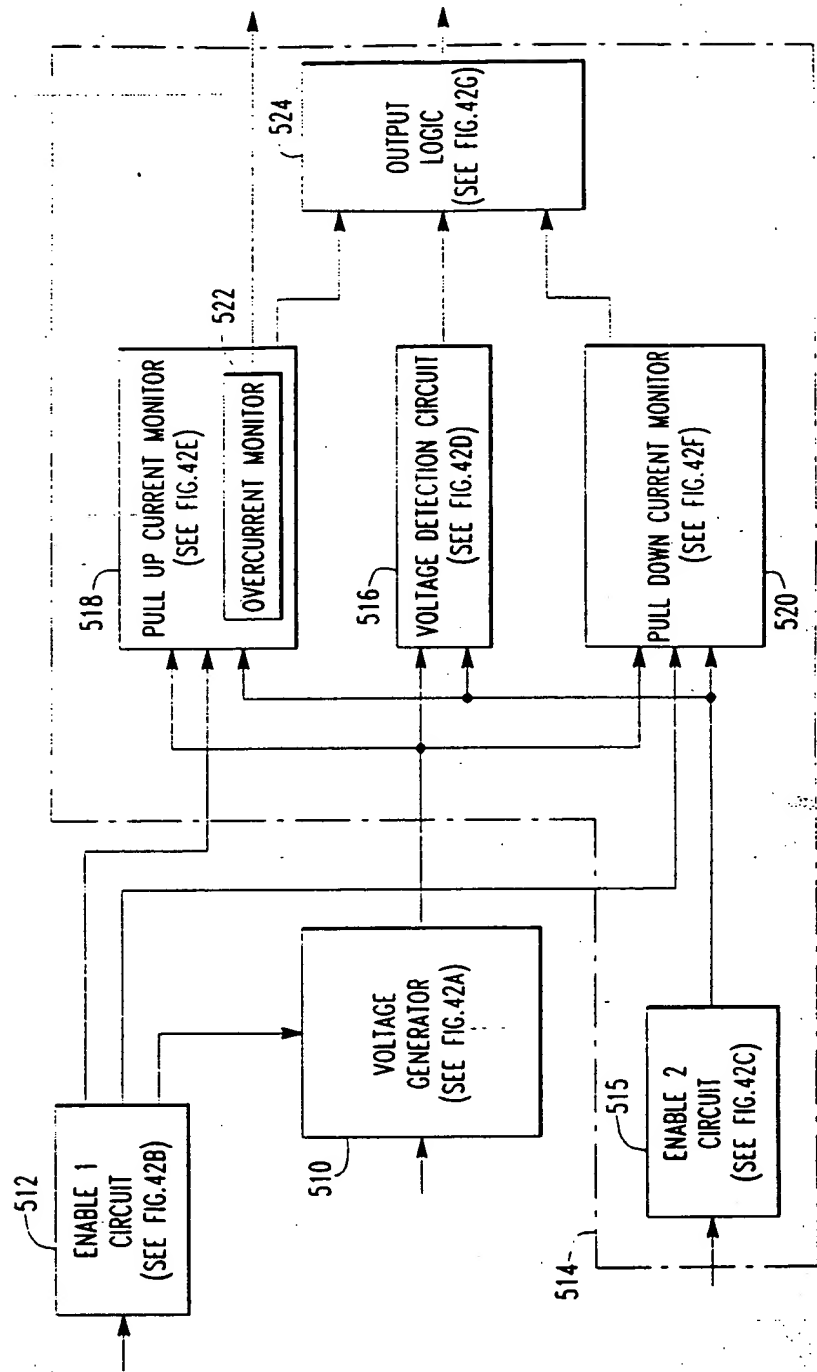


FIG. 41

FIG. 41

100290-21258860

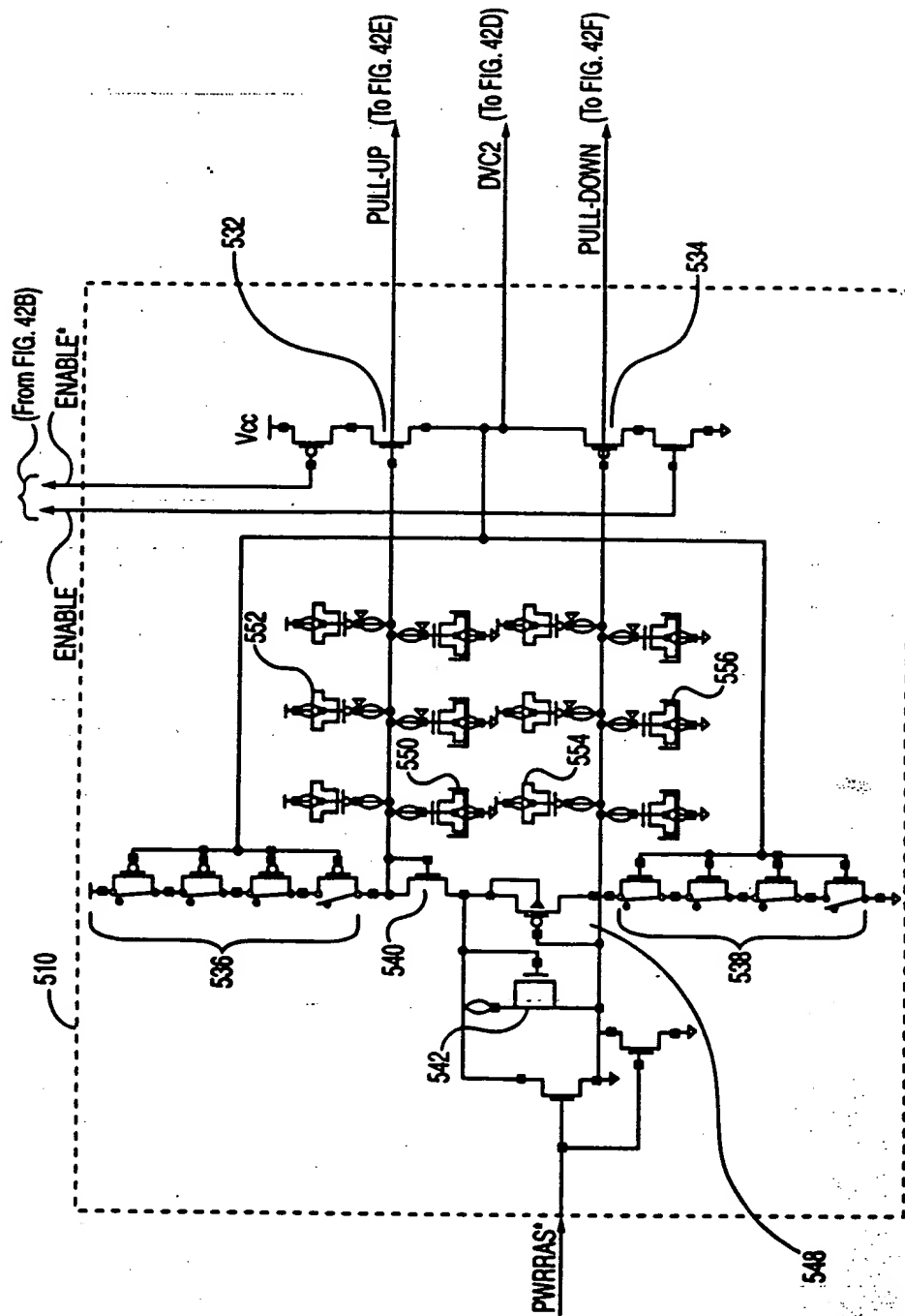


FIG. 42A

100290-21258860

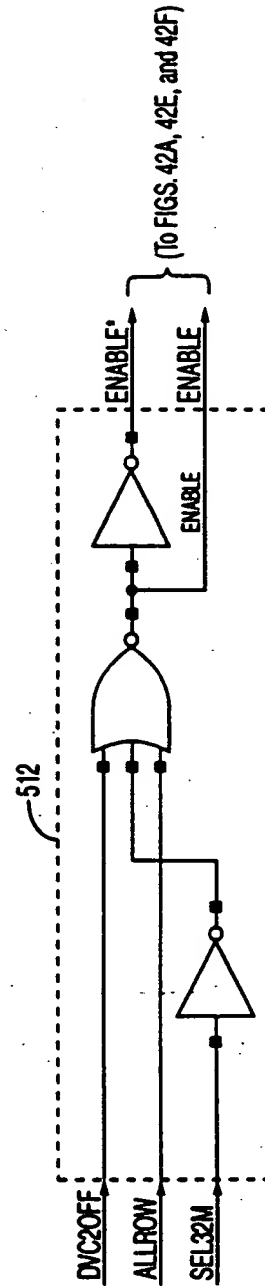


FIG. 42B

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100290-1258860

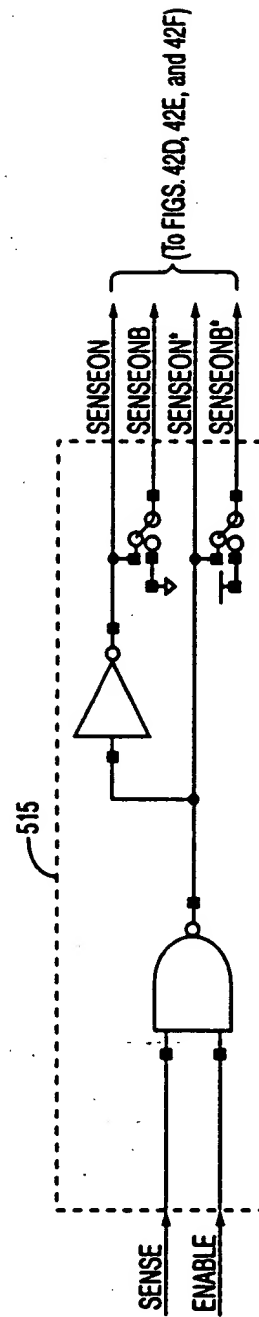


FIG. 42C

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FIG. 42D

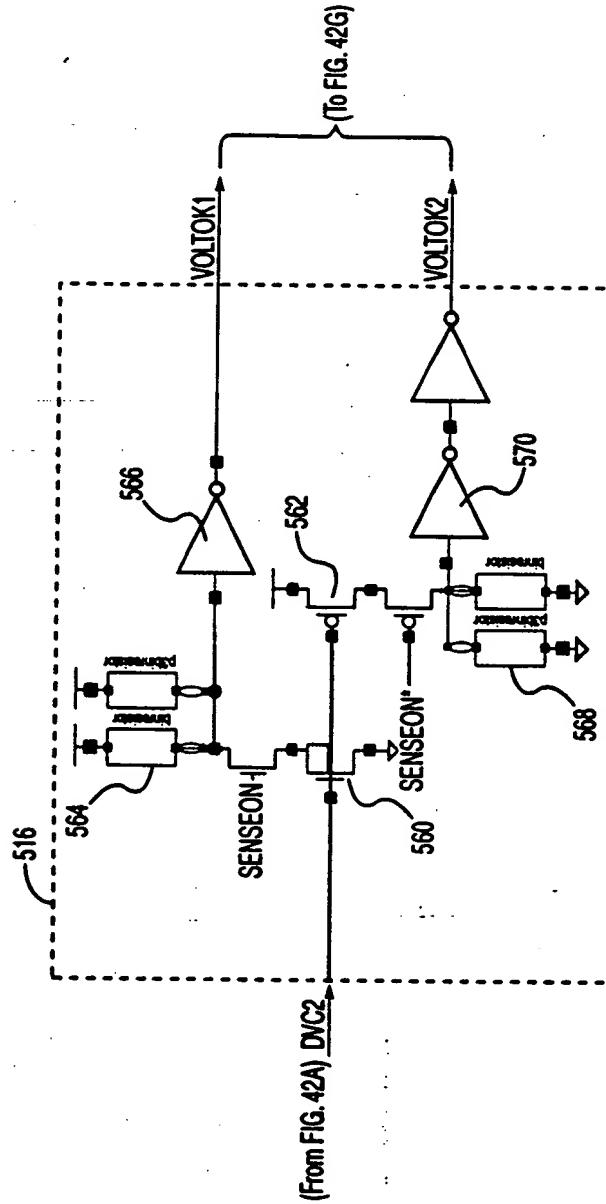


FIG. 42D

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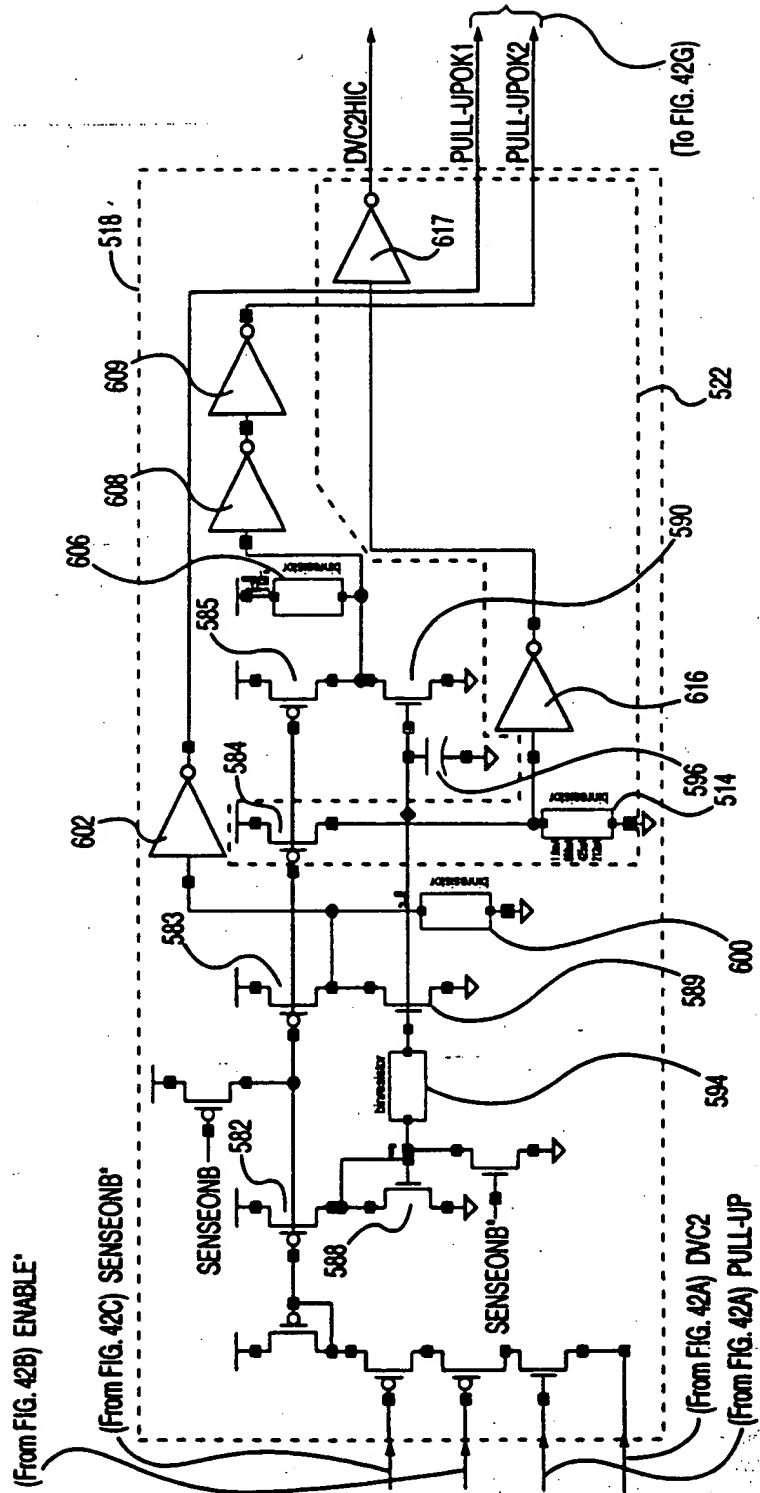


FIG. 42E

1002901/1258860

100290-1258860

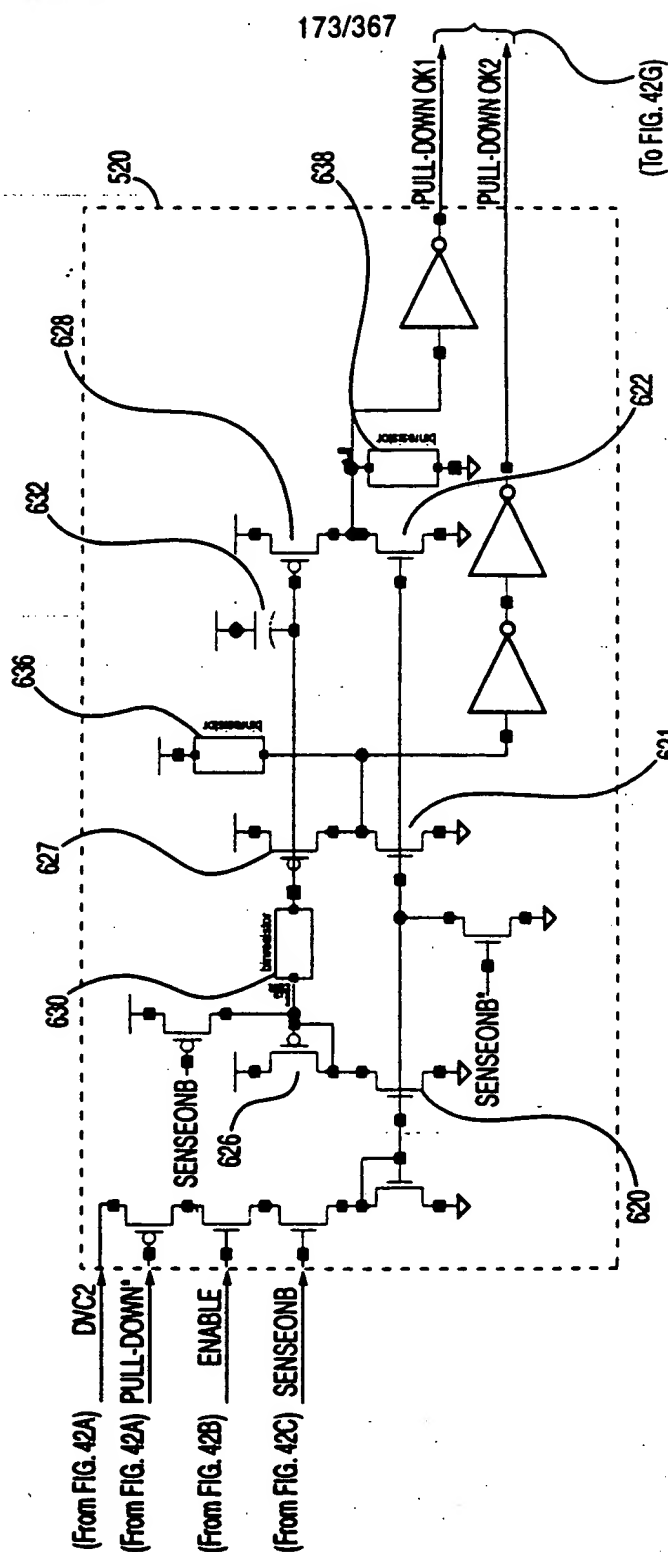


FIG. 42F

(To FIG. 42G)

100296-71258860

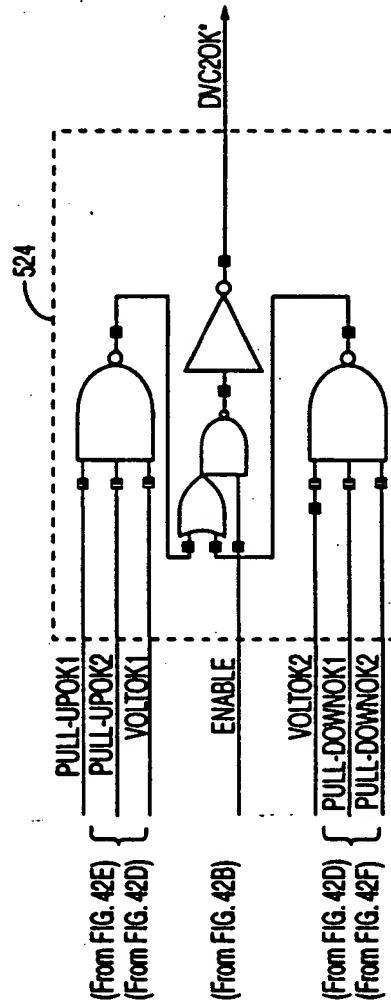


FIG. 42G

11
100290-1258860

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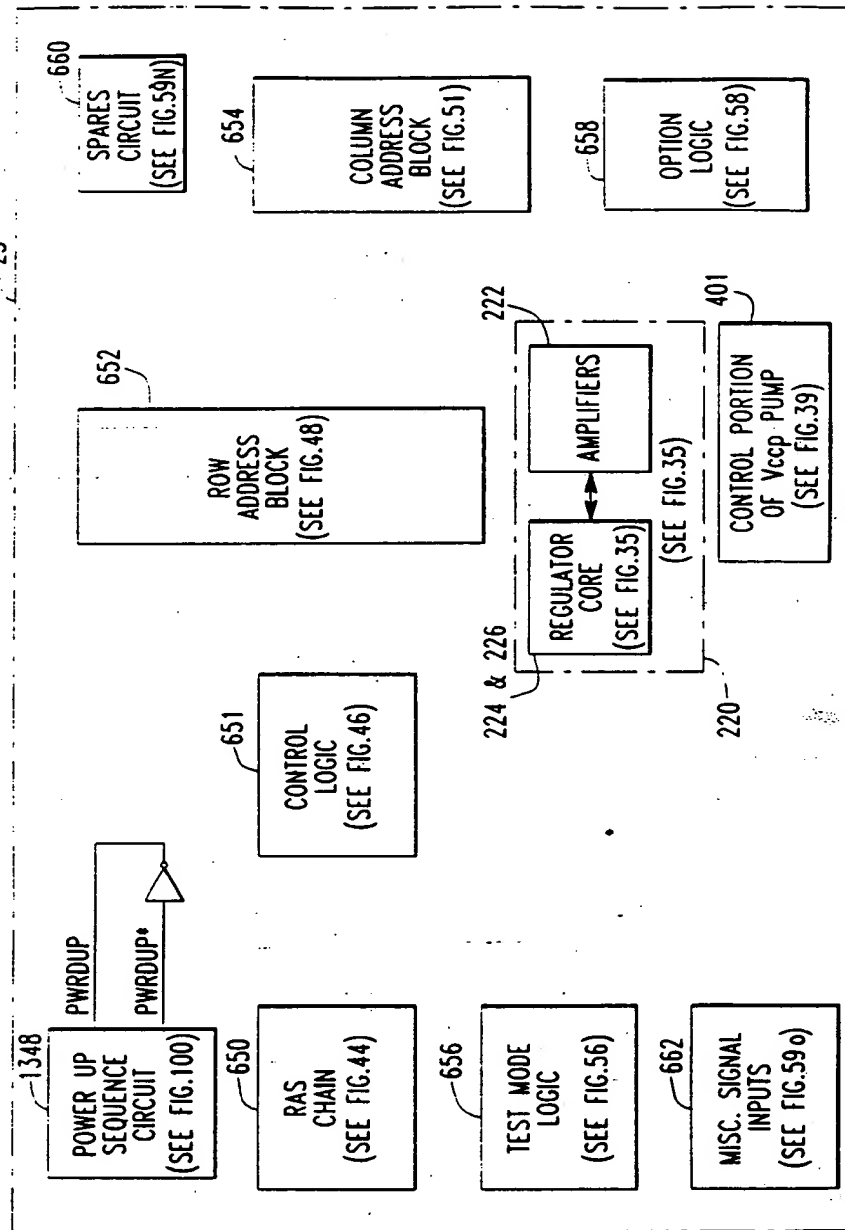
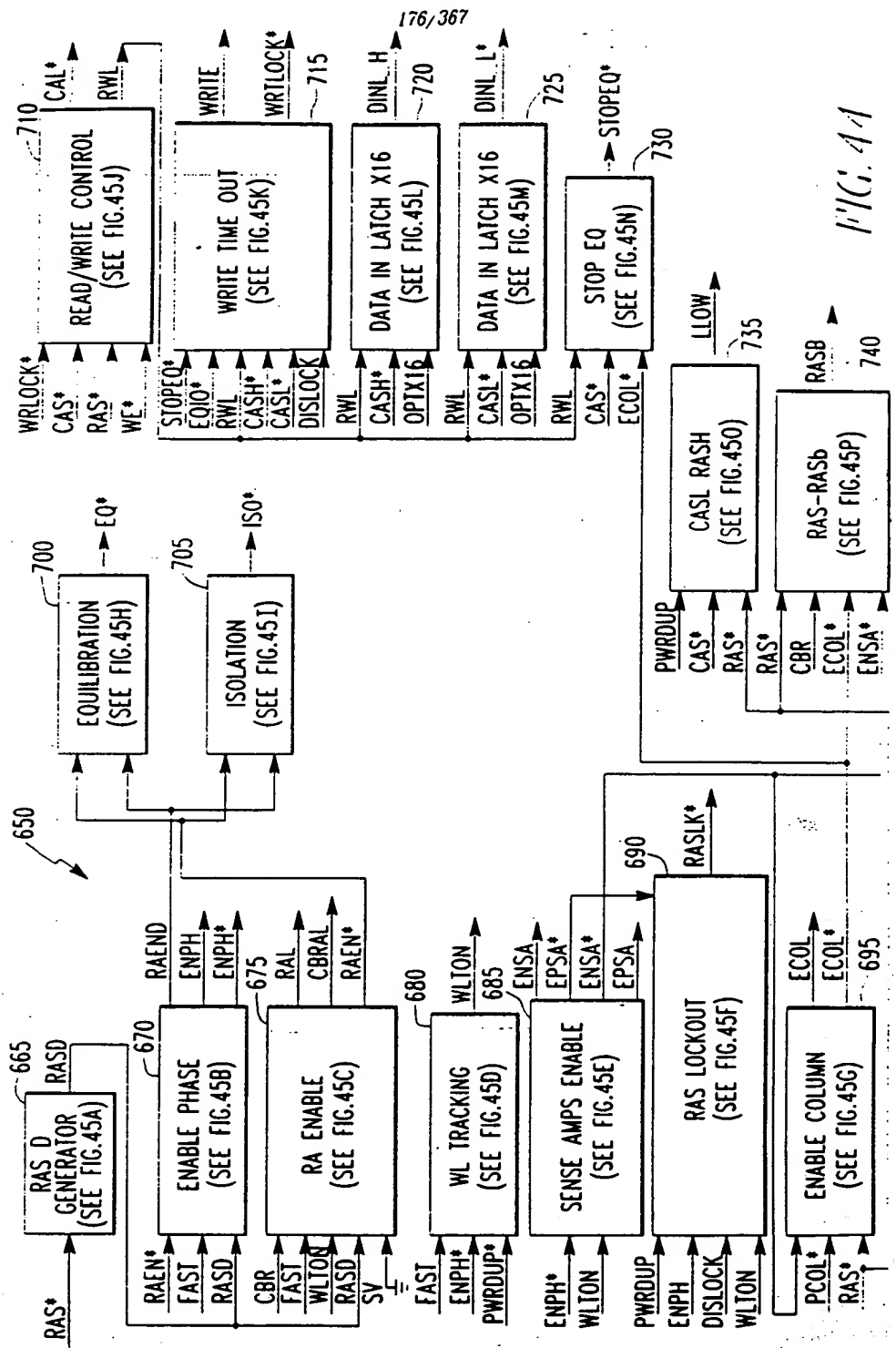


FIG. 43

FIG. 4A



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100290-1258860

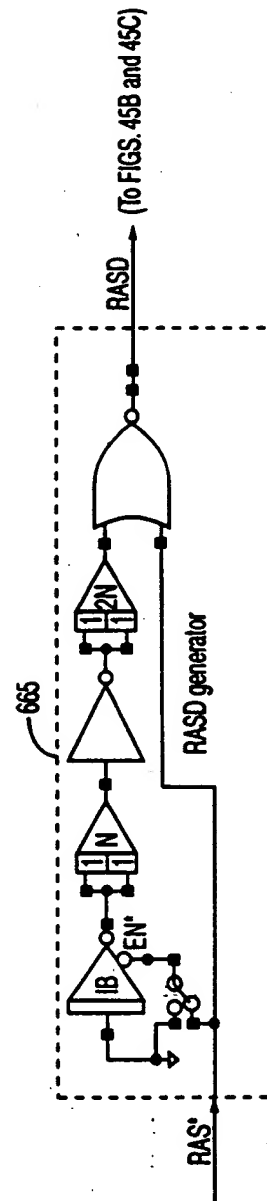


FIG. 45A

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1002901/1258860

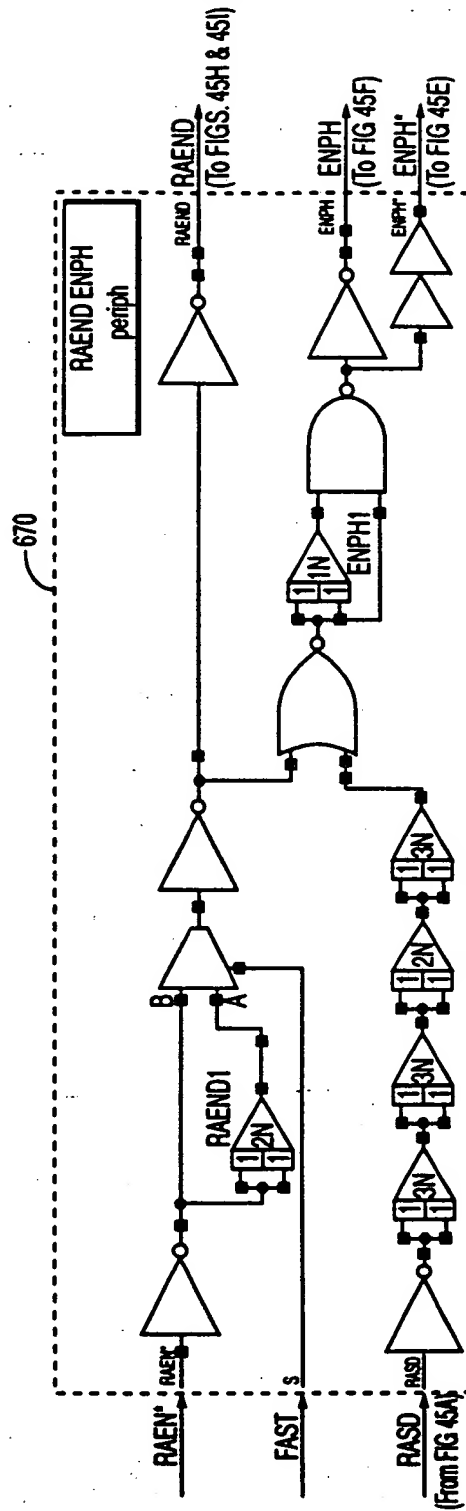


FIG. 45B

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100290-71258860

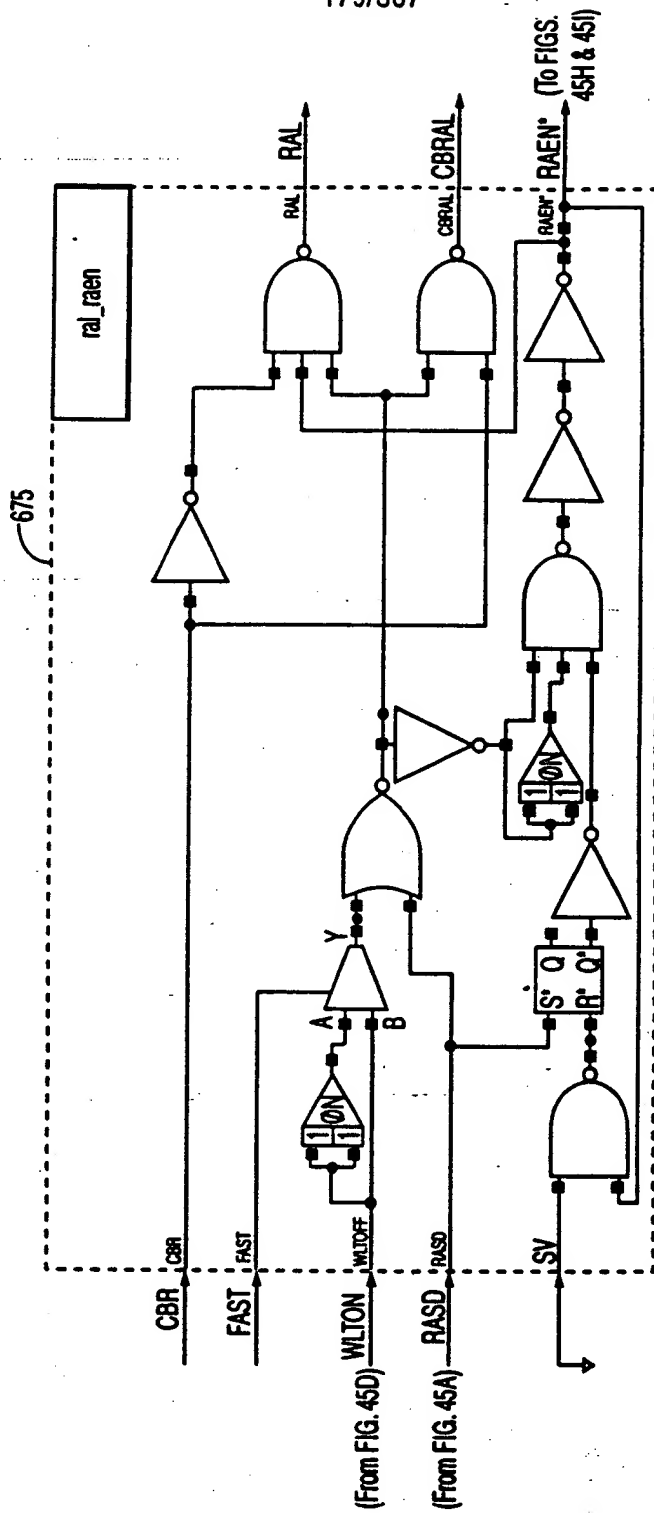


FIG. 45C

11
T00296-1258860

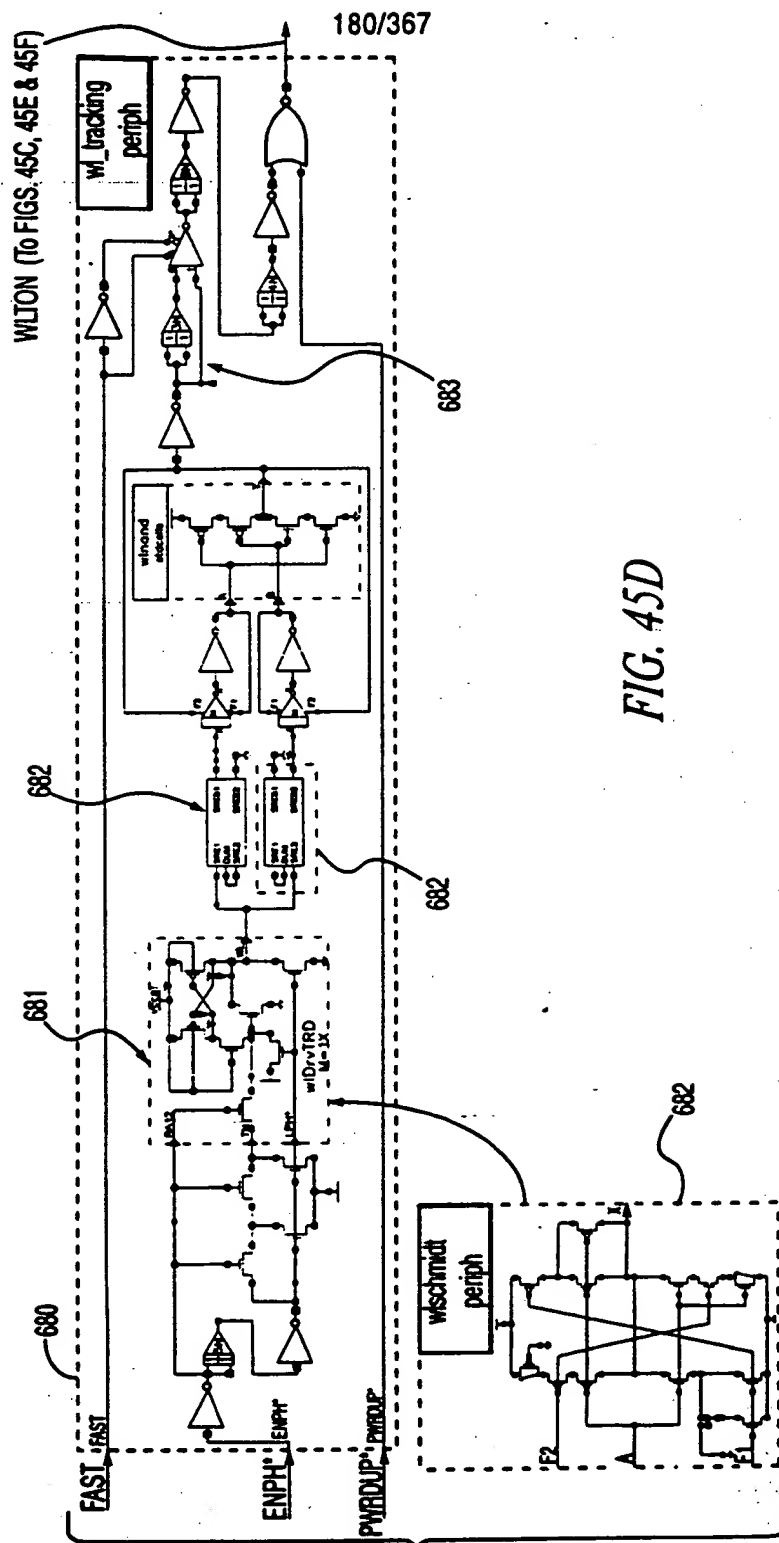


FIG. 45D

(From FIG. 45B)

100296-1258860

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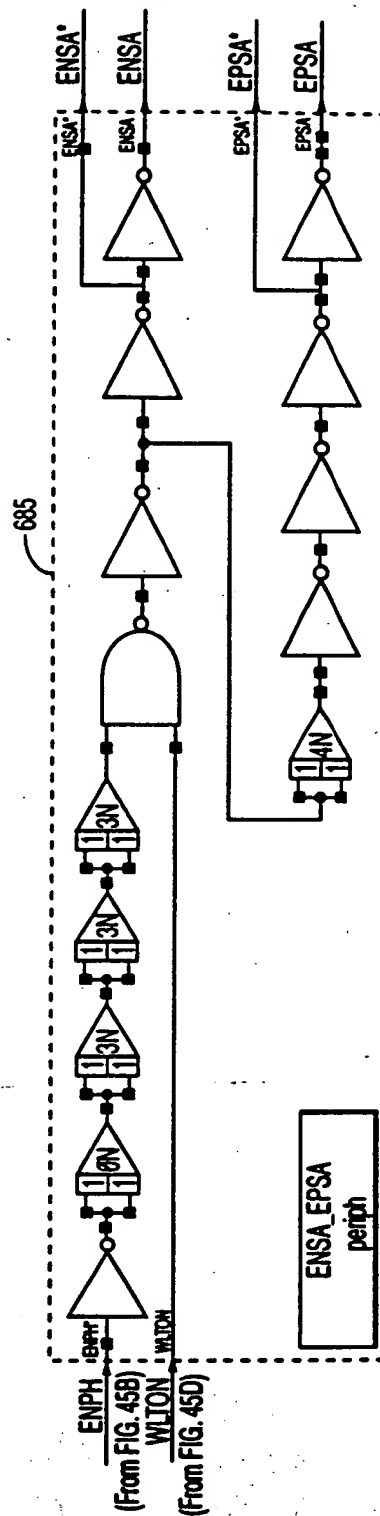


FIG. 45E

Figure 1

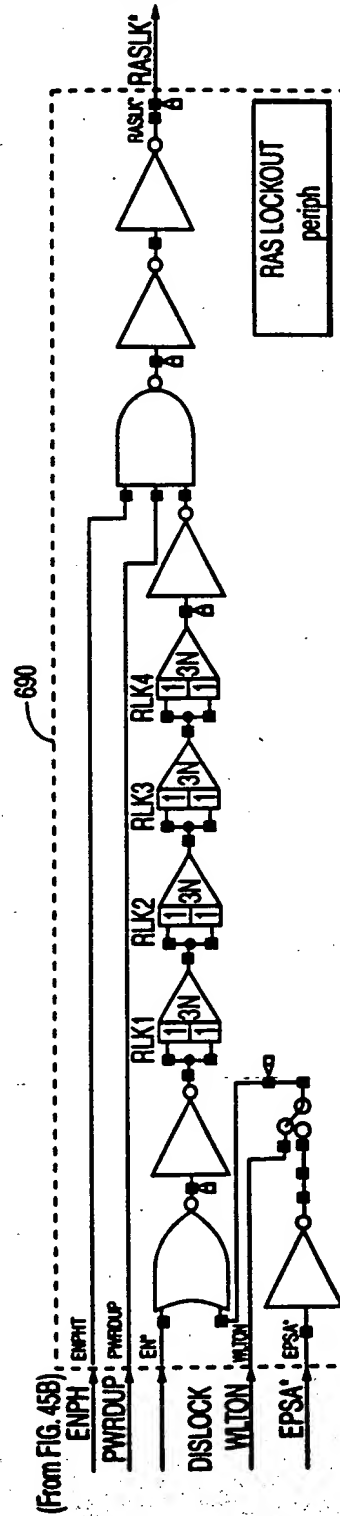


FIG. 45F

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100290-21258860

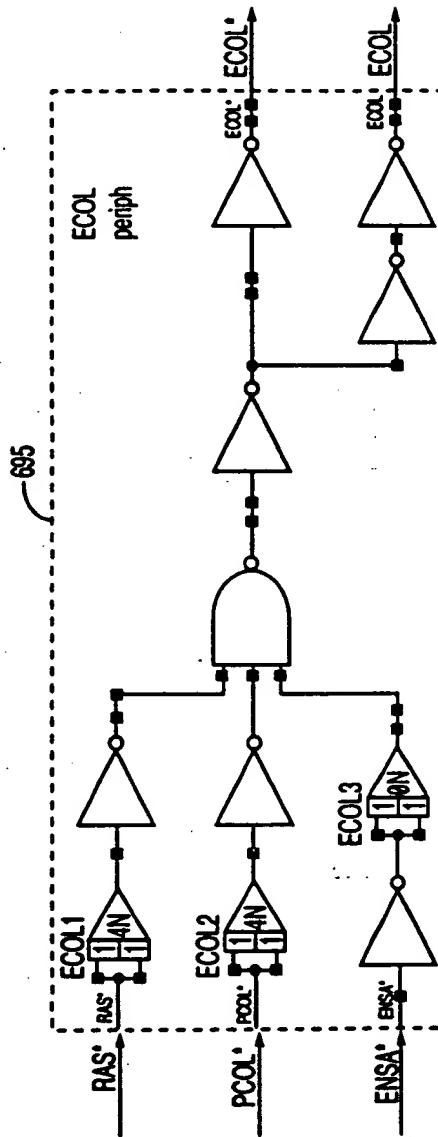


FIG. 45G

CONFIDENTIAL

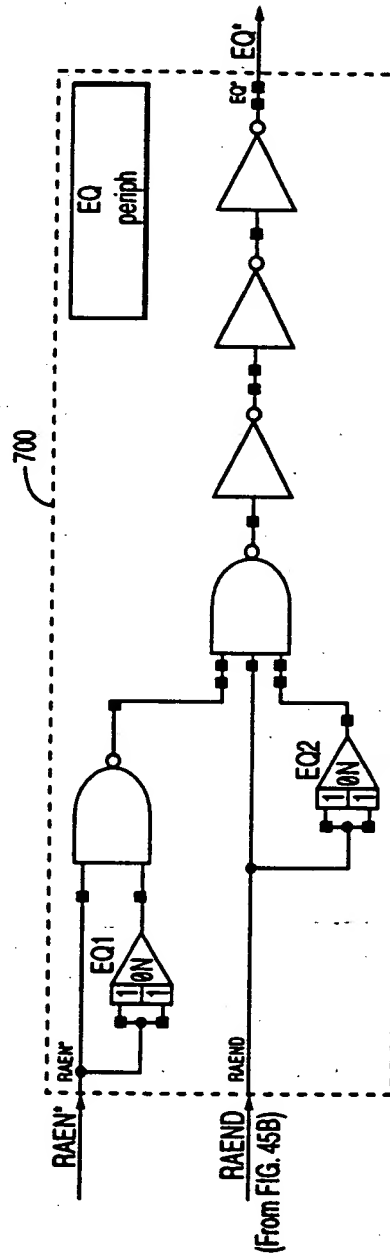


FIG. 45H

100250-1258860

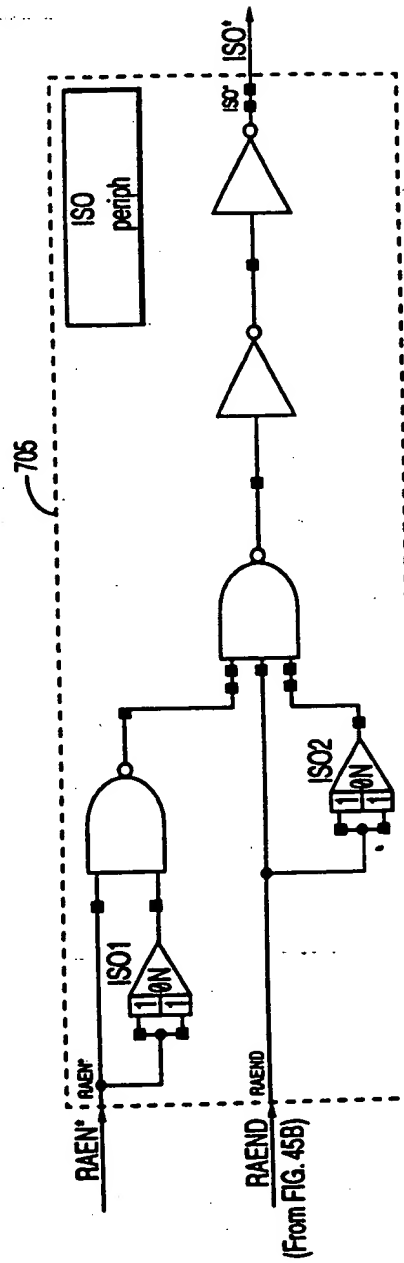


FIG. 45I

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11
T00290-1258860

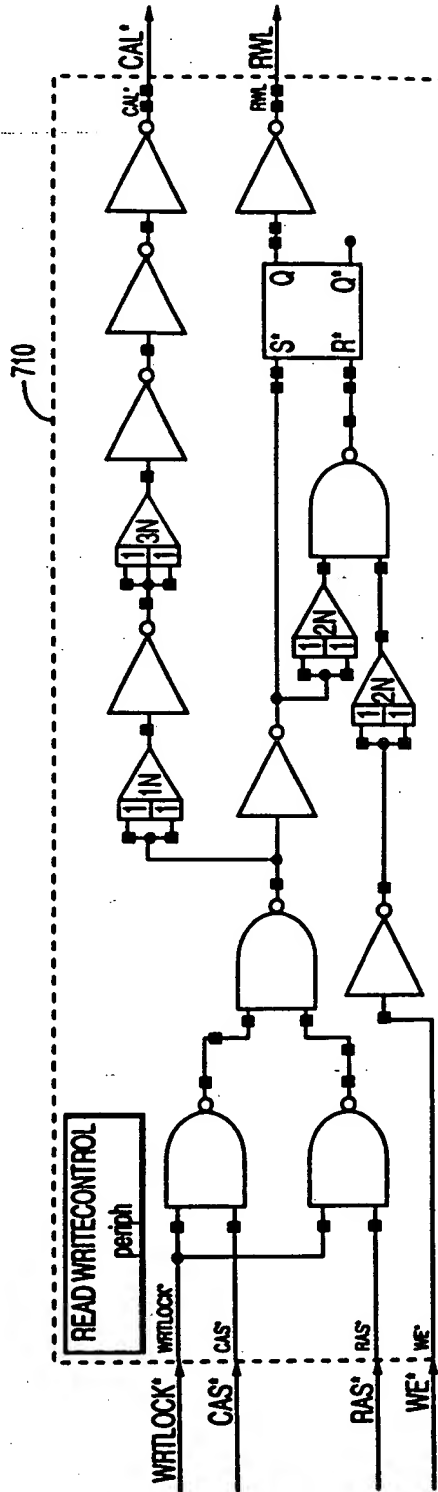
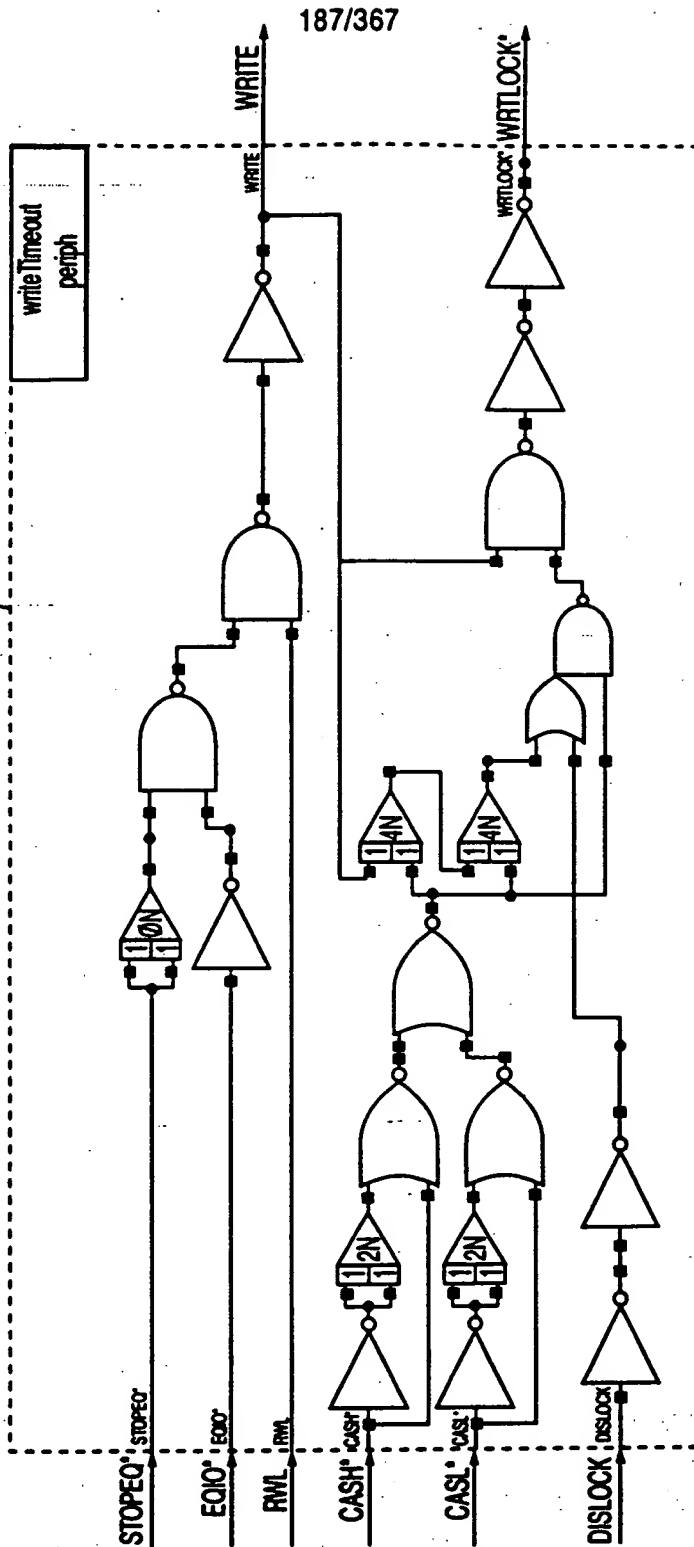


FIG. 45J

100296-1258860

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FIG. 45K

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100290-71258860

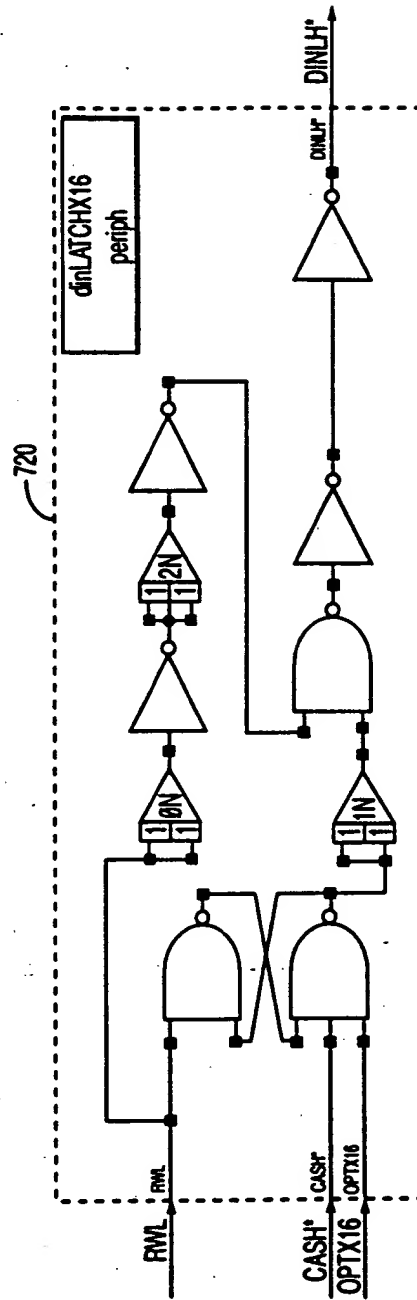


FIG. 45L

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FIG. 45M

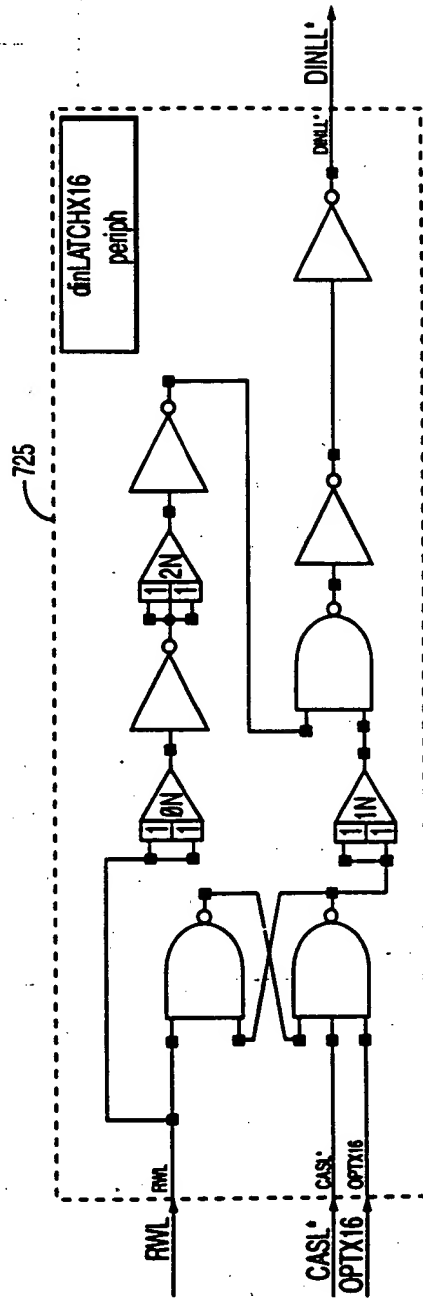


FIG. 45M

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11
100296-21258860

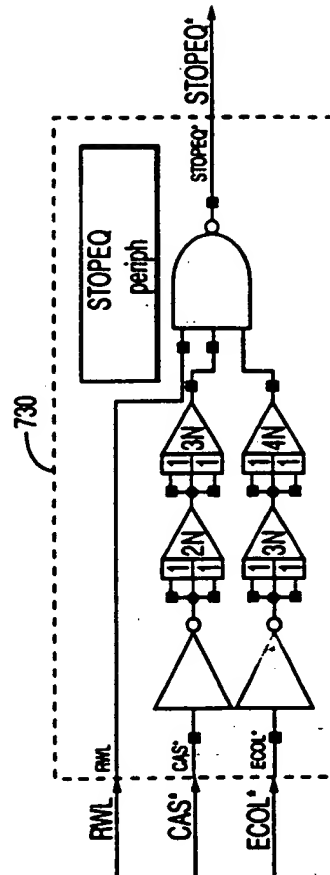


FIG. 45N

100290-2258860

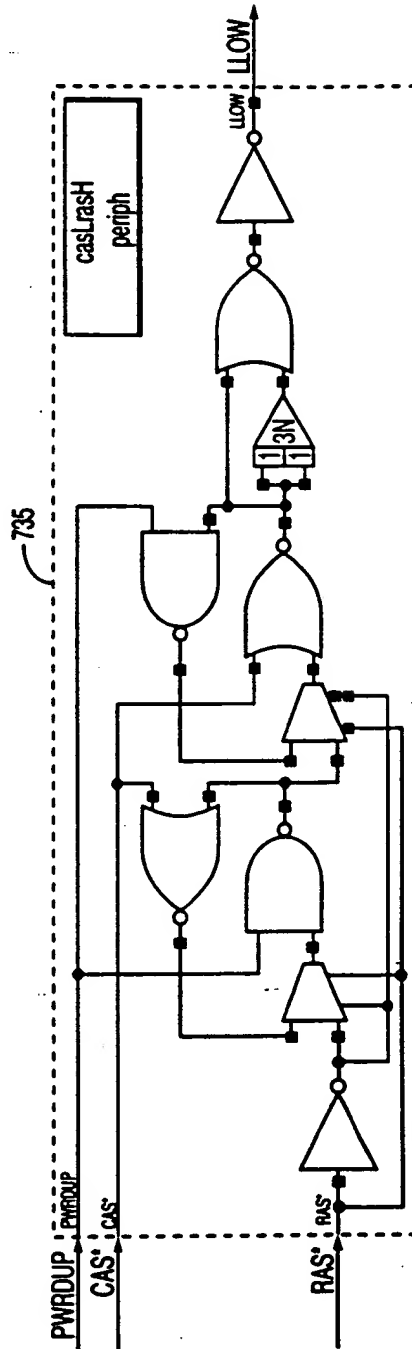


FIG. 450

11
T00290/1258860

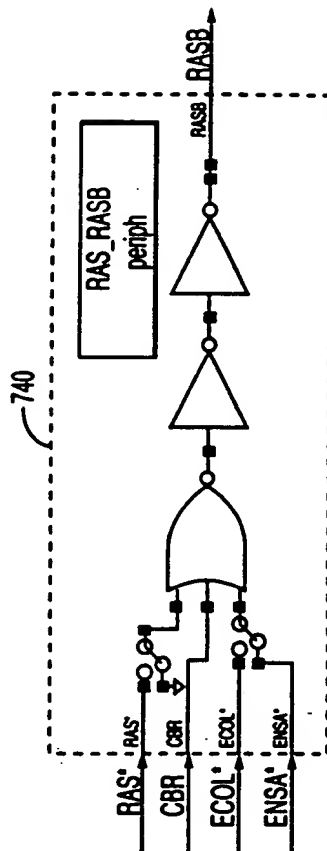


FIG. 45P

11
100290-1258860

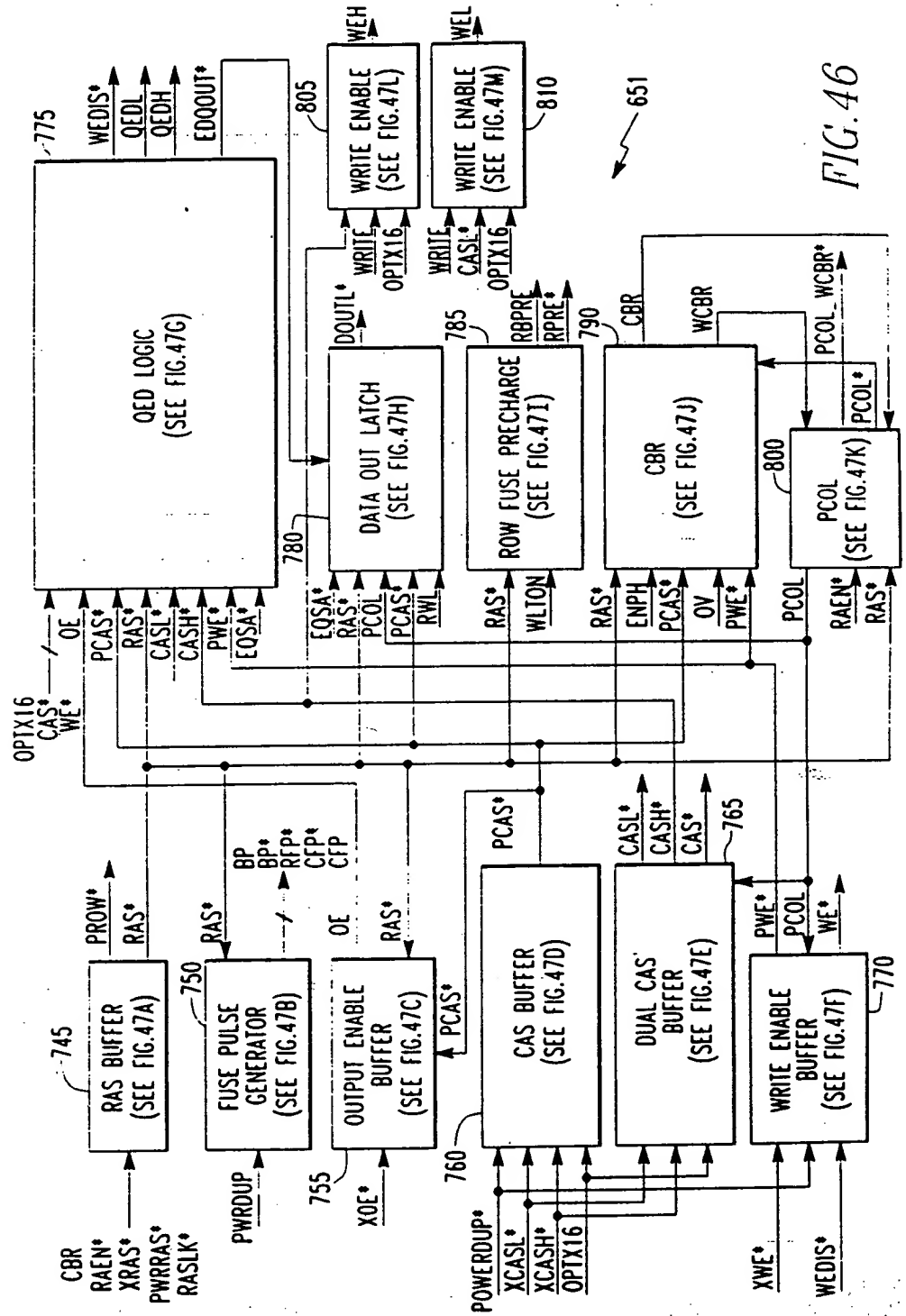


FIG. 46

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11
T00290-1258860

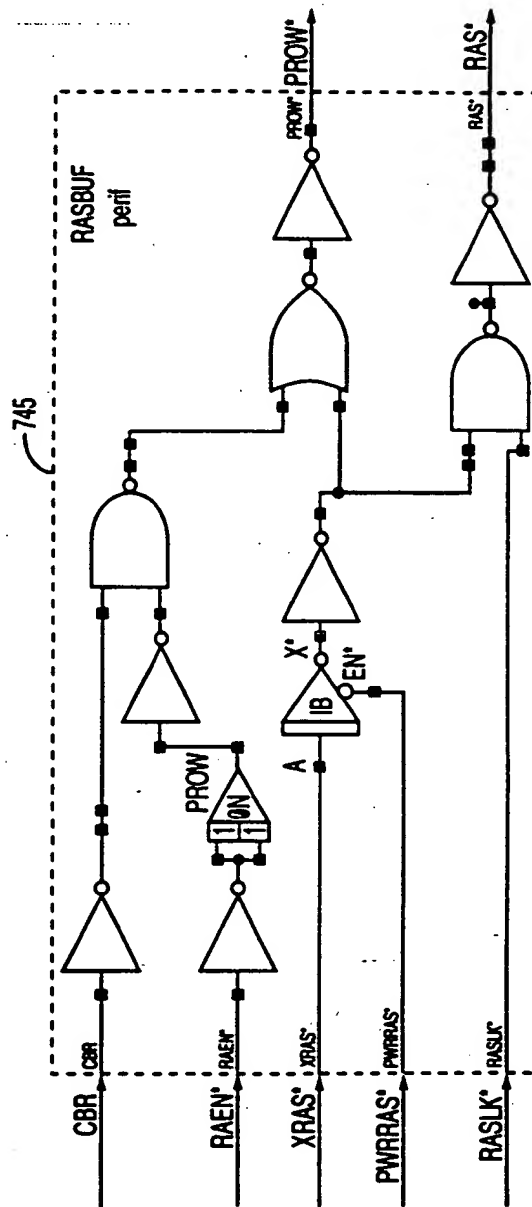


FIG. 47A

100290-71258860

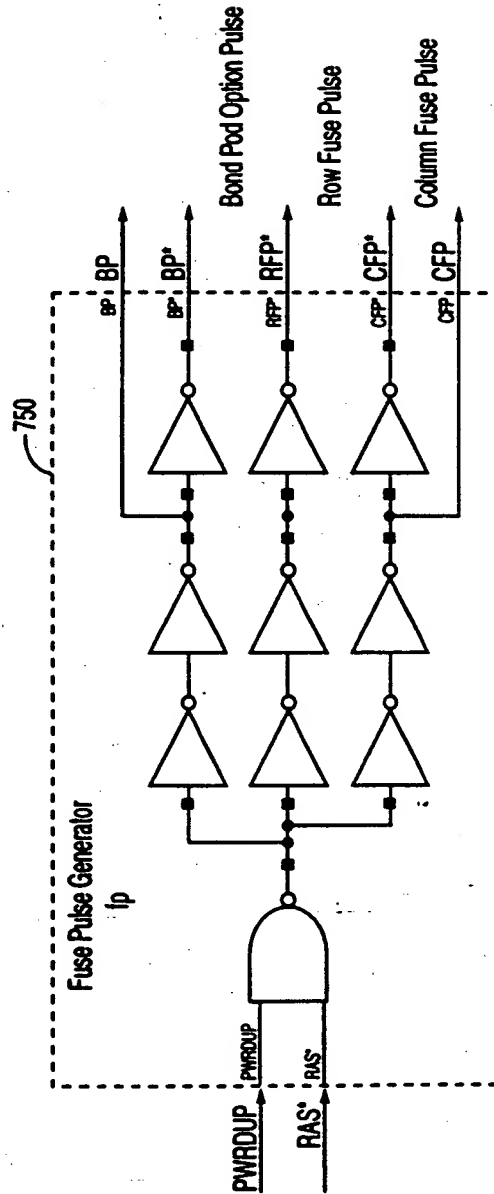


FIG. 47B

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100290" / T258860

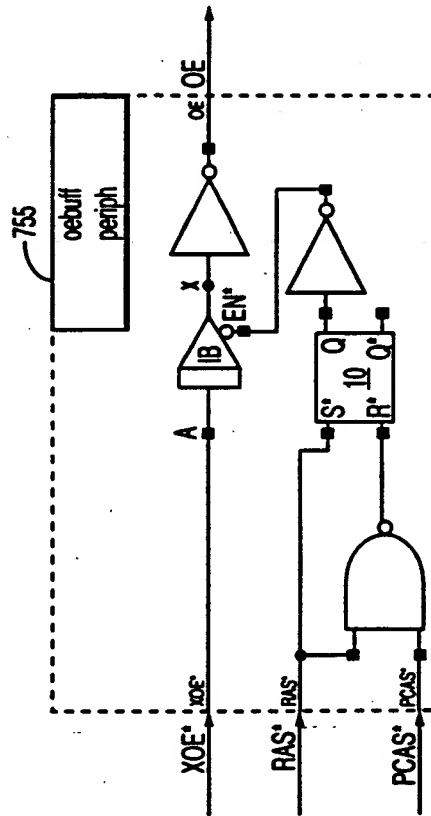


FIG. 47C

100290/1258860

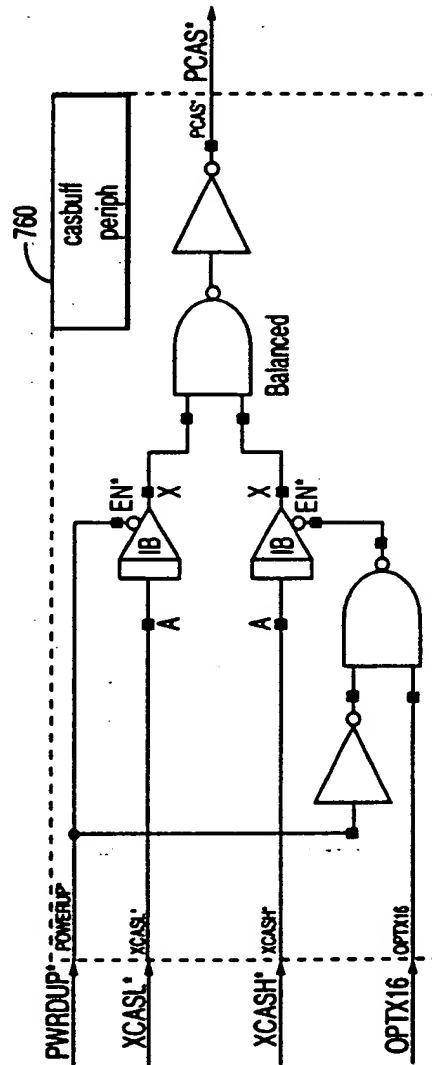


FIG. 47D

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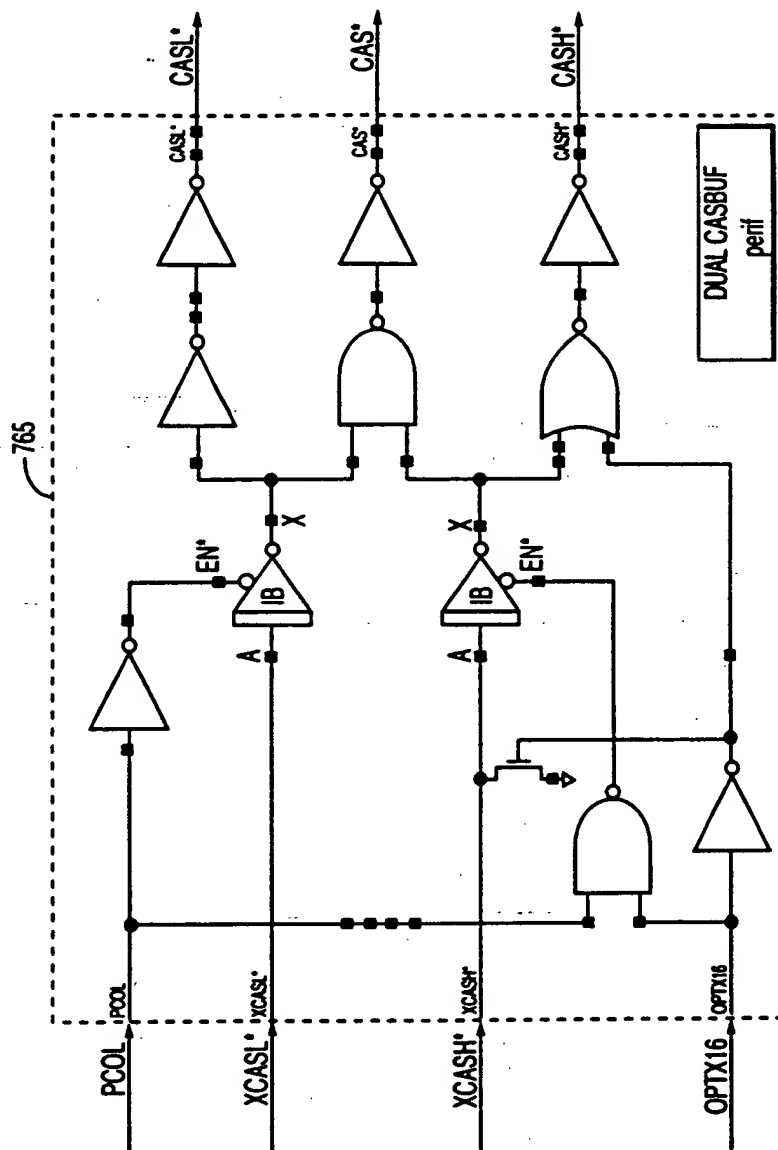


FIG. 47E

三六

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100290: 21258860

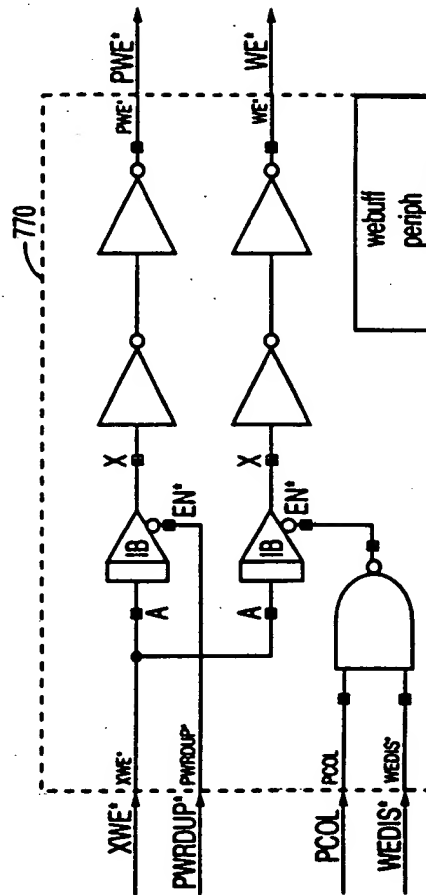


FIG. 47F

11
T000290-2258860

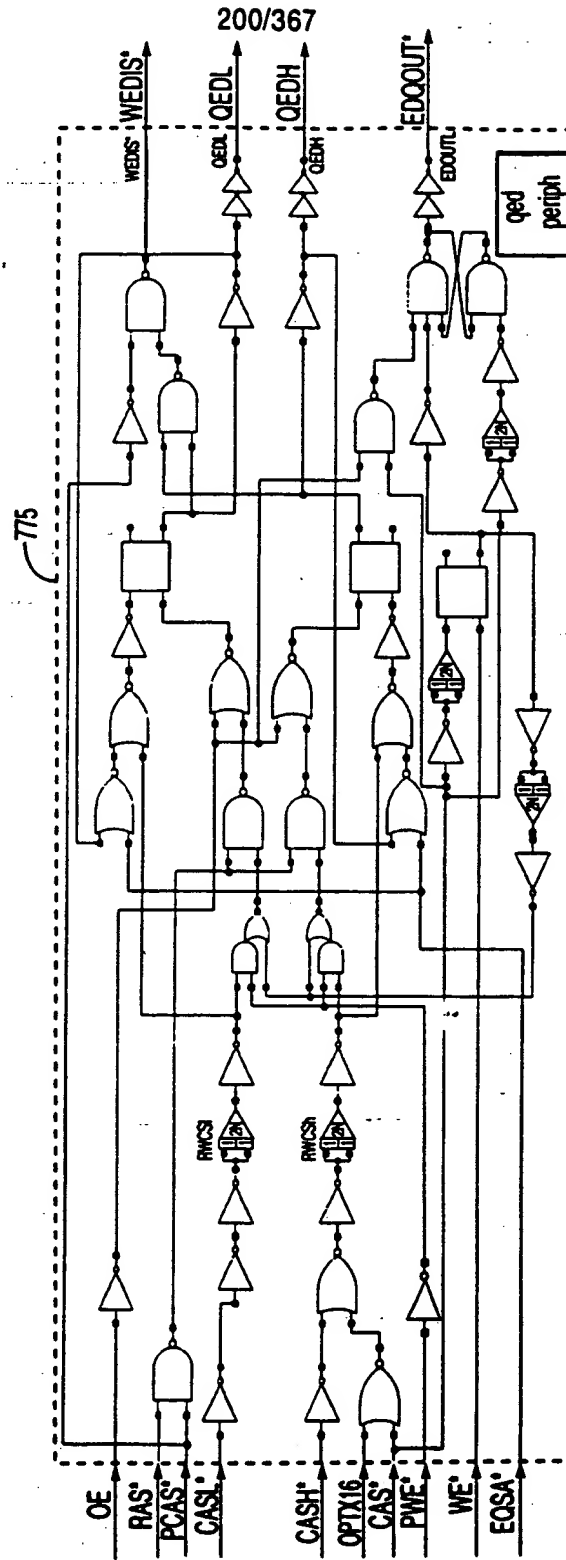


FIG. 47G

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11
100290: 21258860

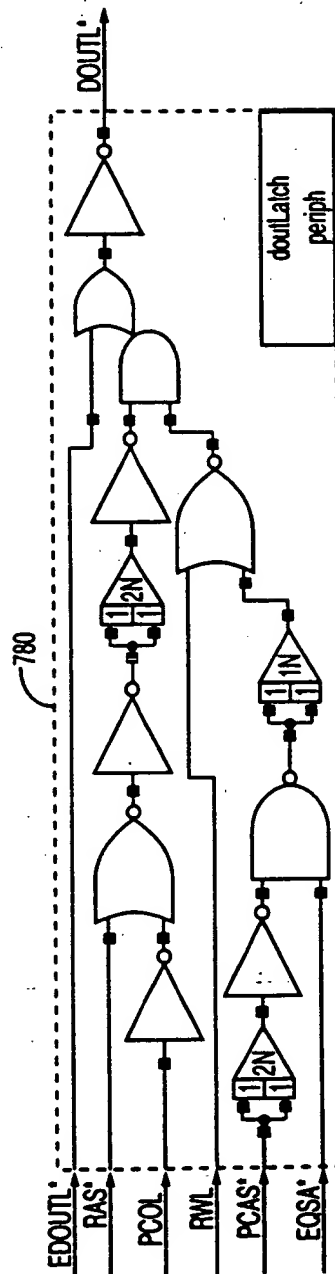


FIG. 47H

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100290/1258860

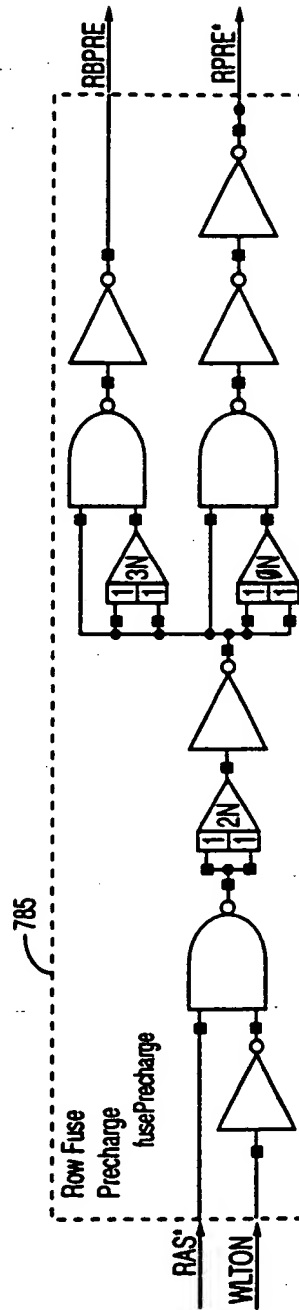


FIG. 471

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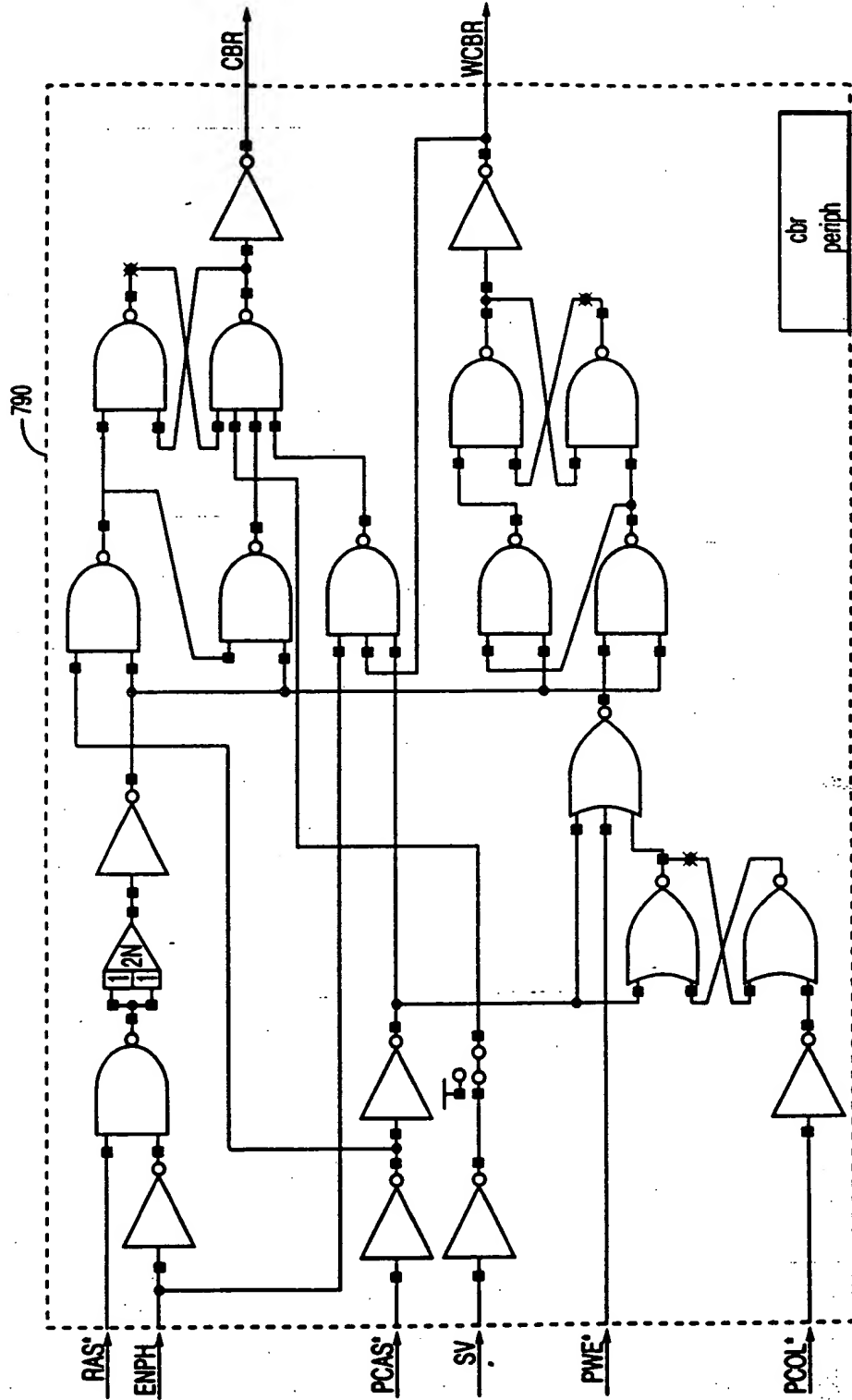


FIG. 47J

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100290-21258860

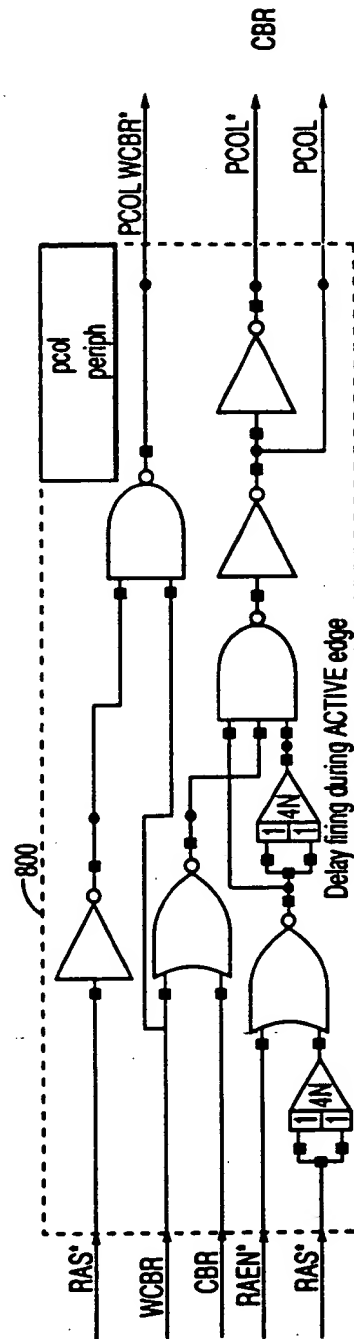


FIG. 47K

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100290-11258860

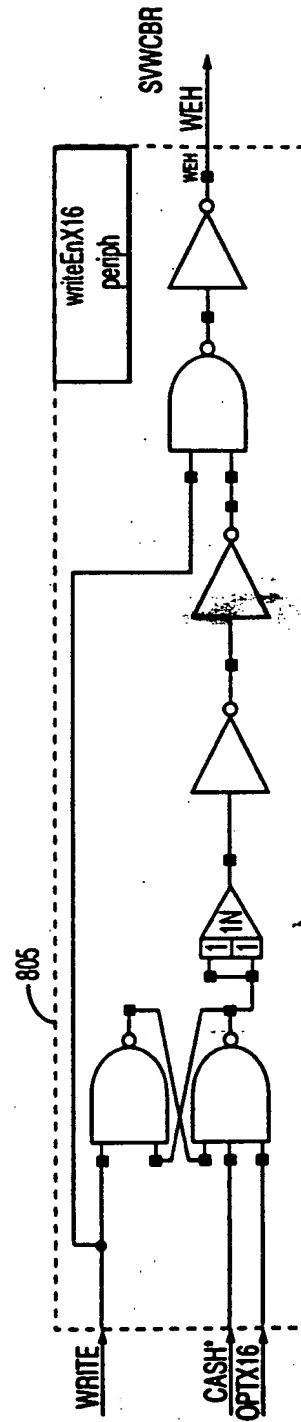


FIG. 47L

FIG. 47M

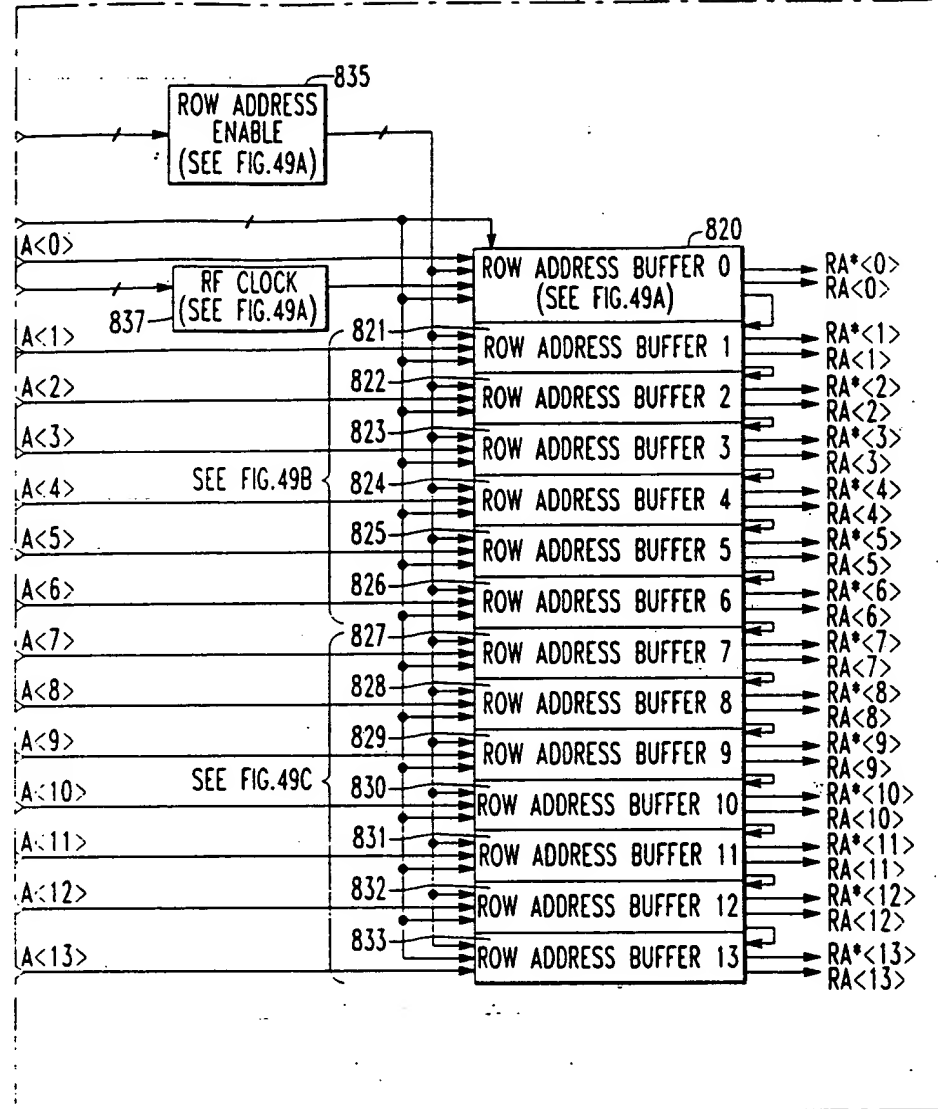


FIG. 48A

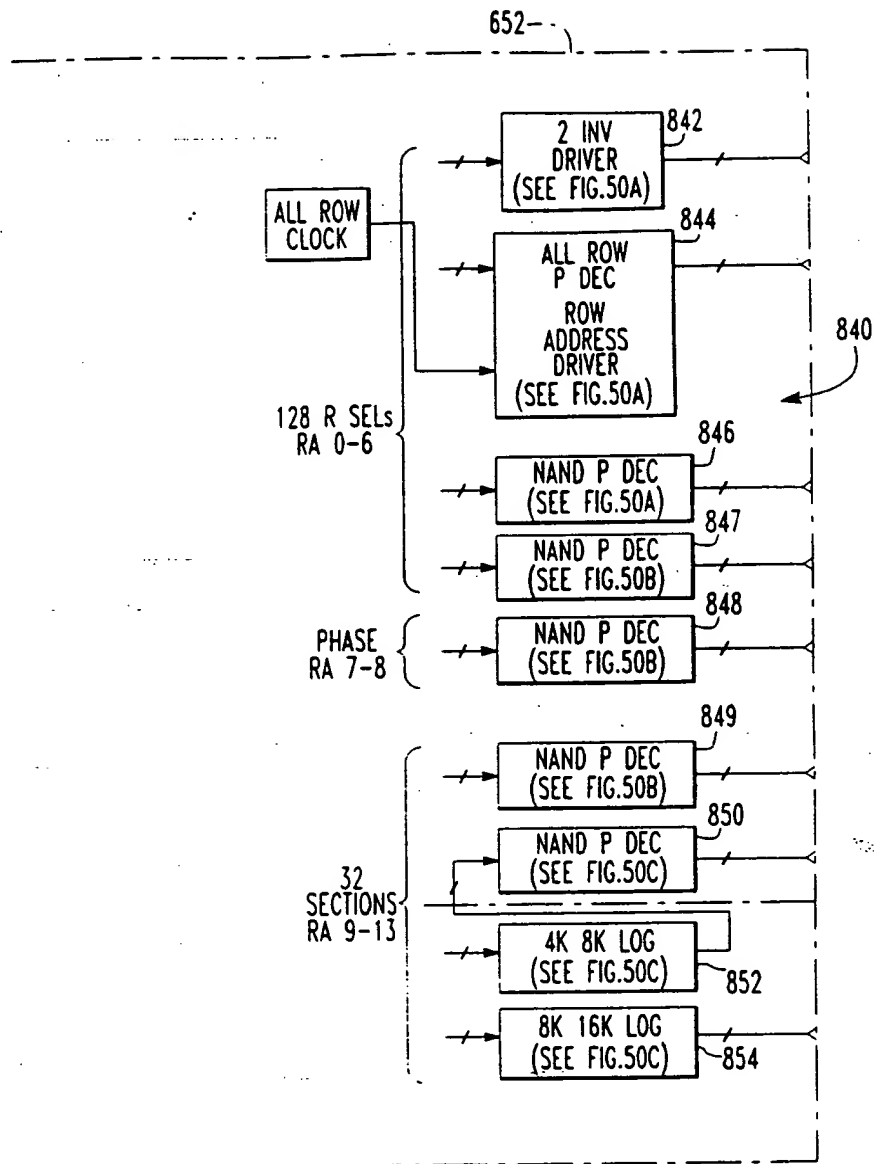


FIG. 48B

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100290/1258860

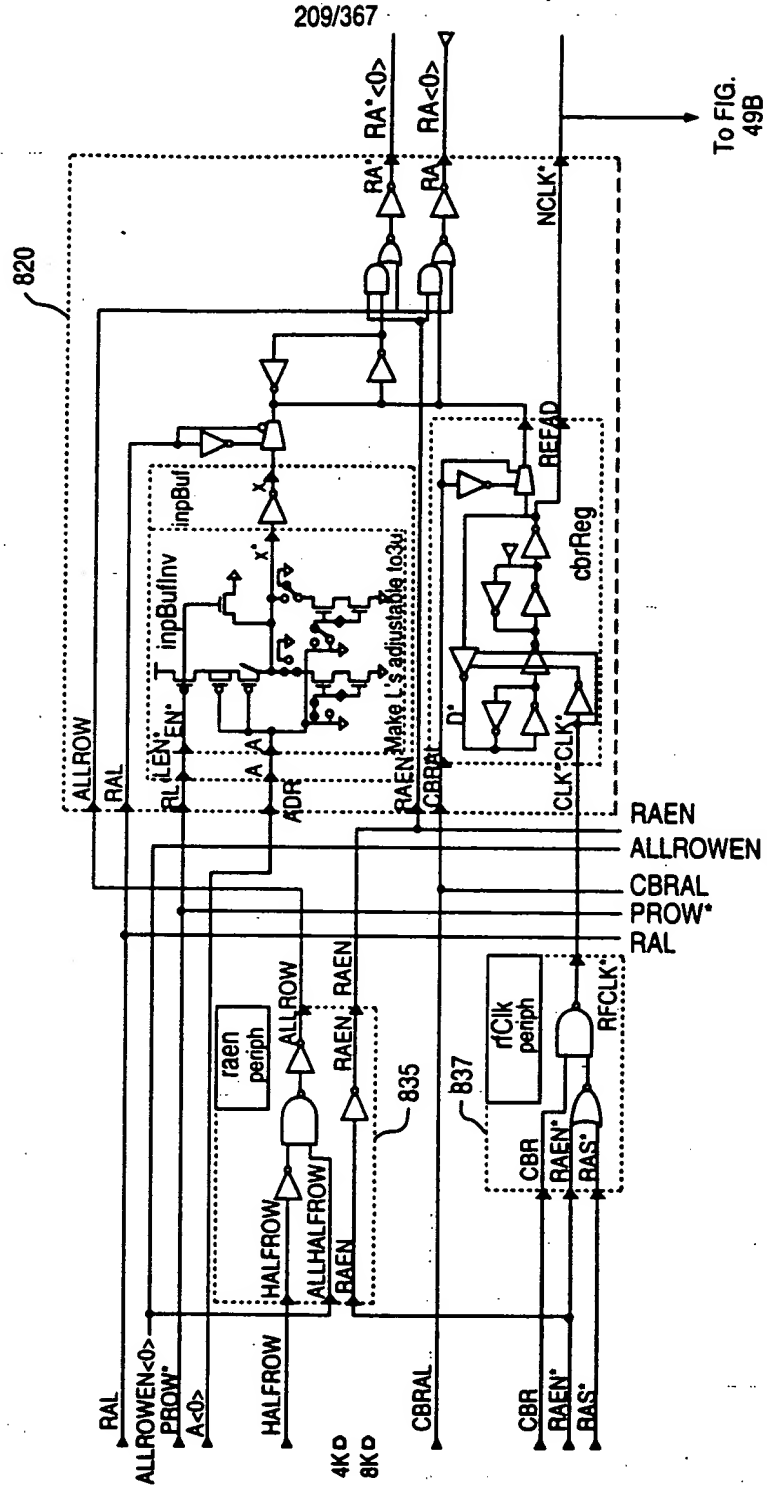


FIG. 49A

To FIG. 49B

To FIG. 49B

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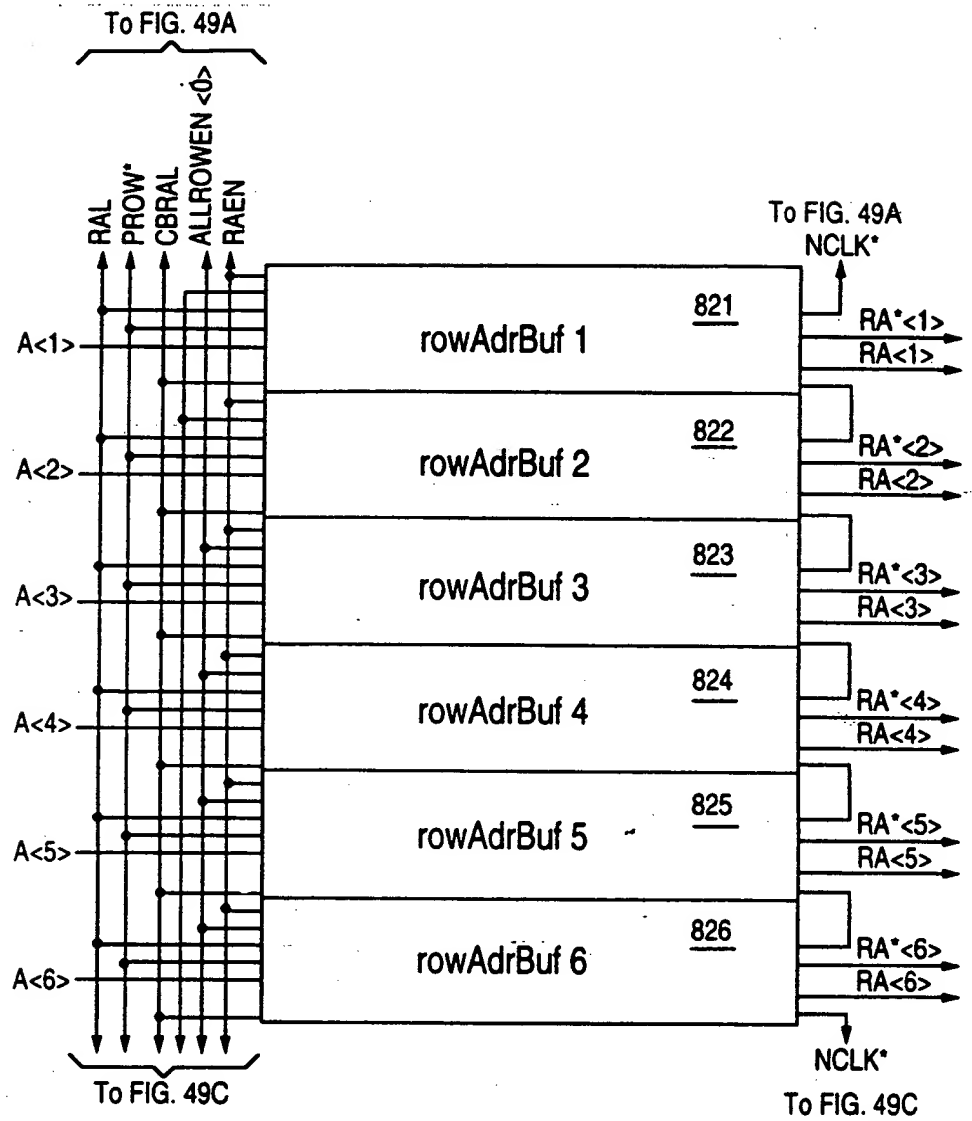


FIG. 49B

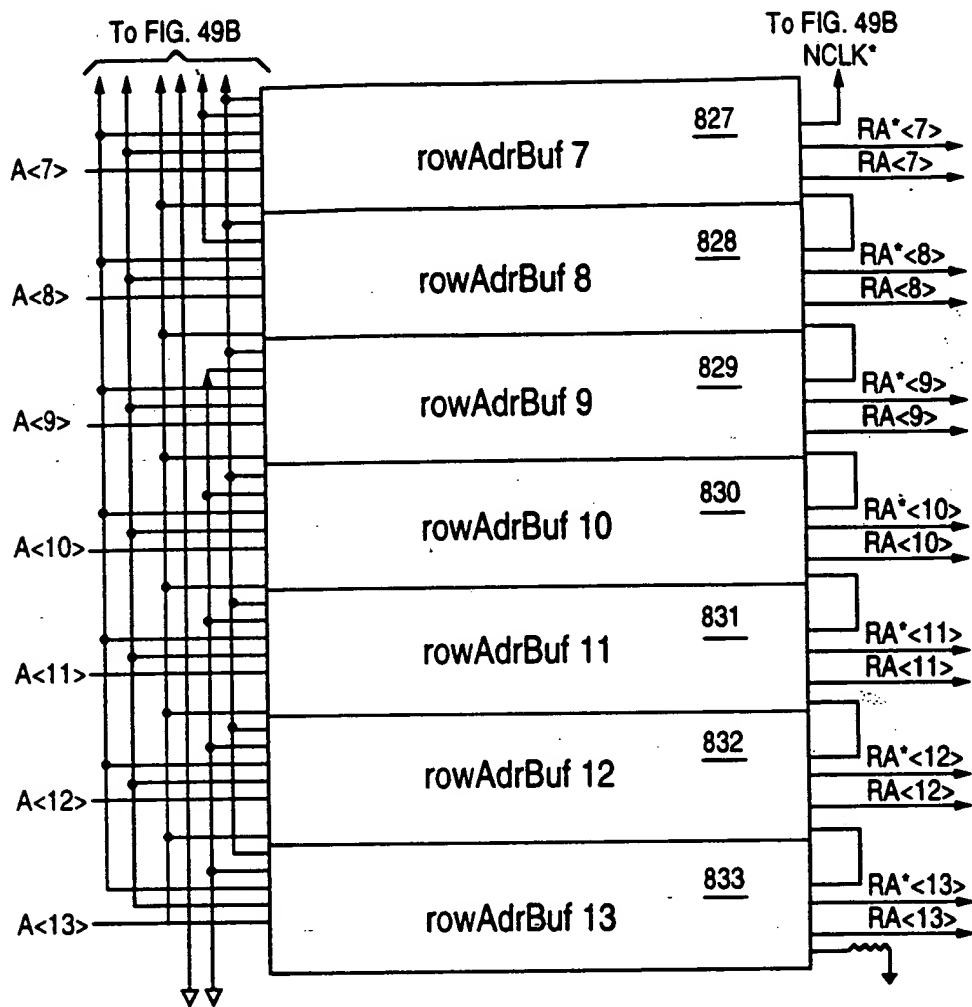


FIG. 49C

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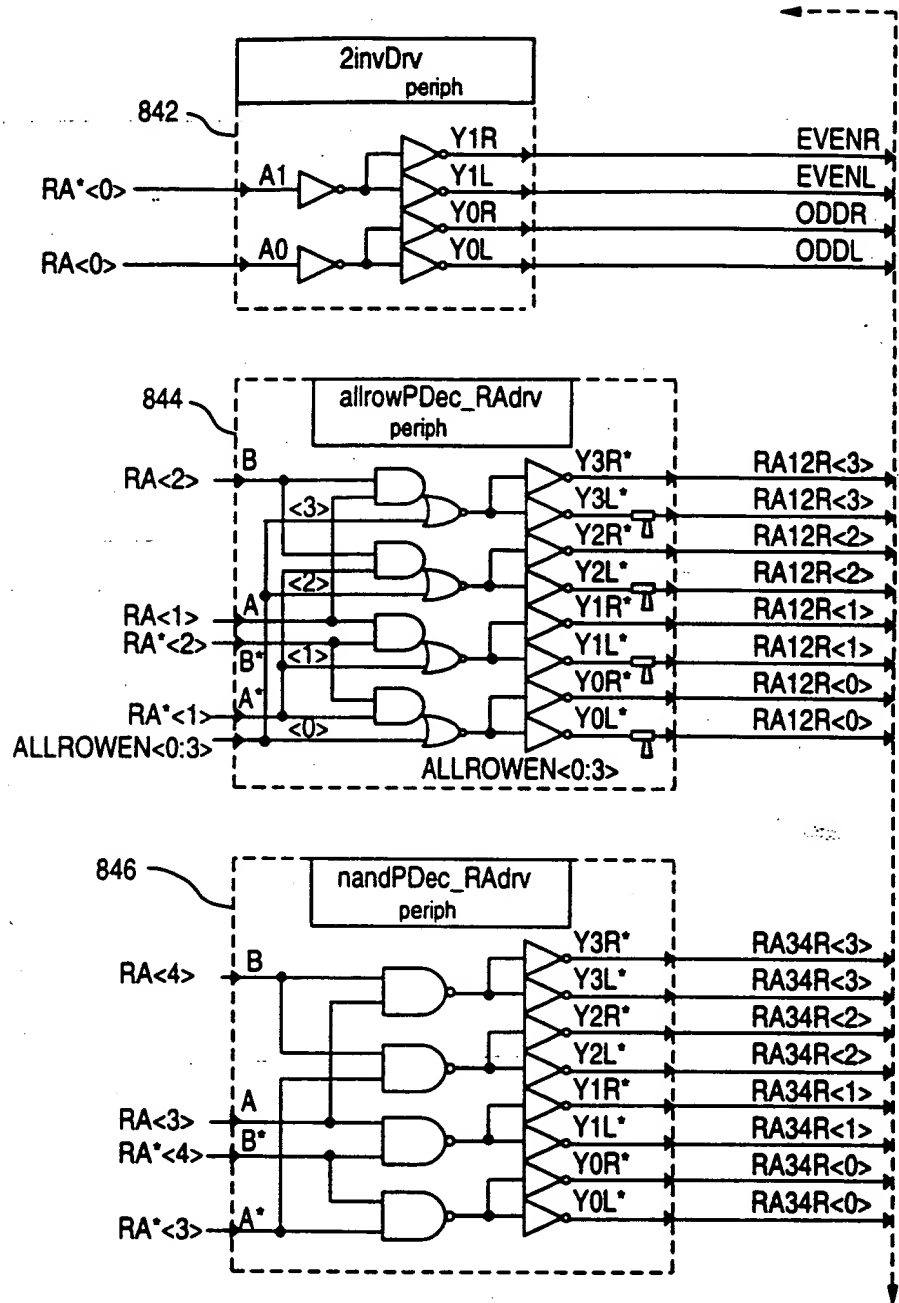


FIG. 50A

0085217-052001

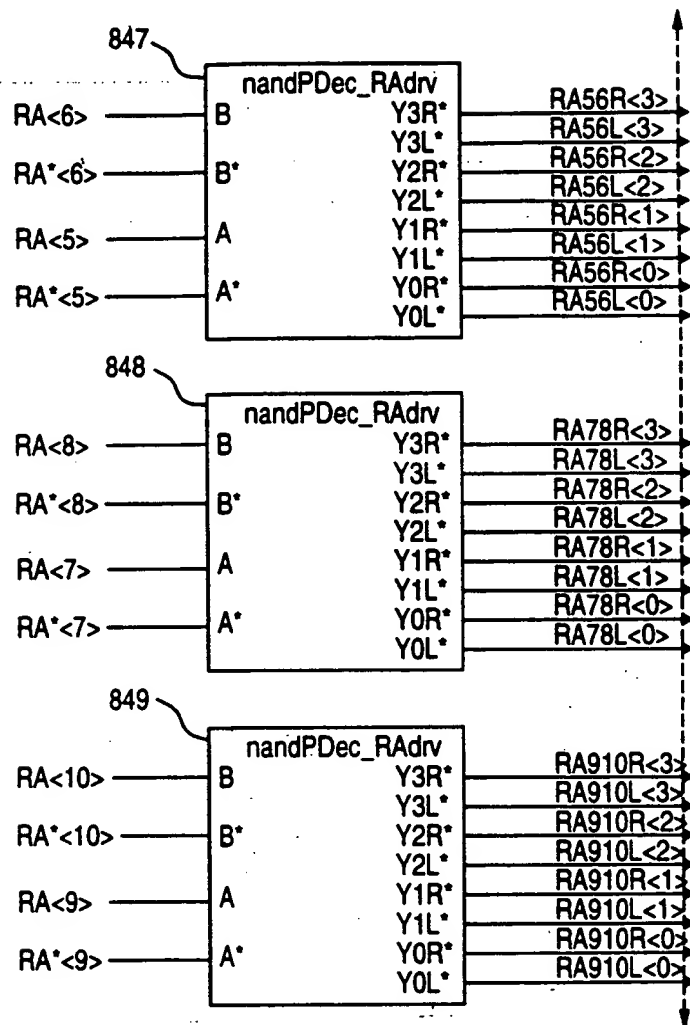


FIG. 50B

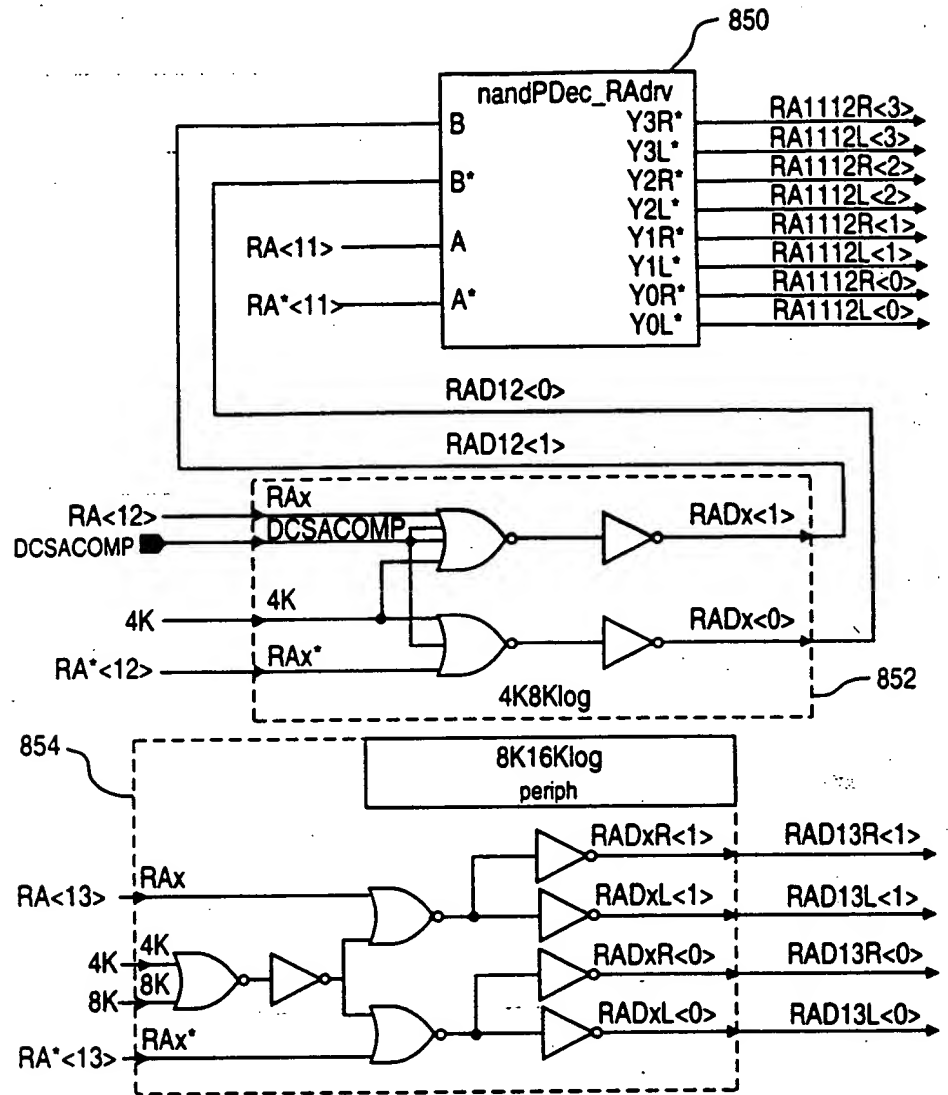


FIG. 50C

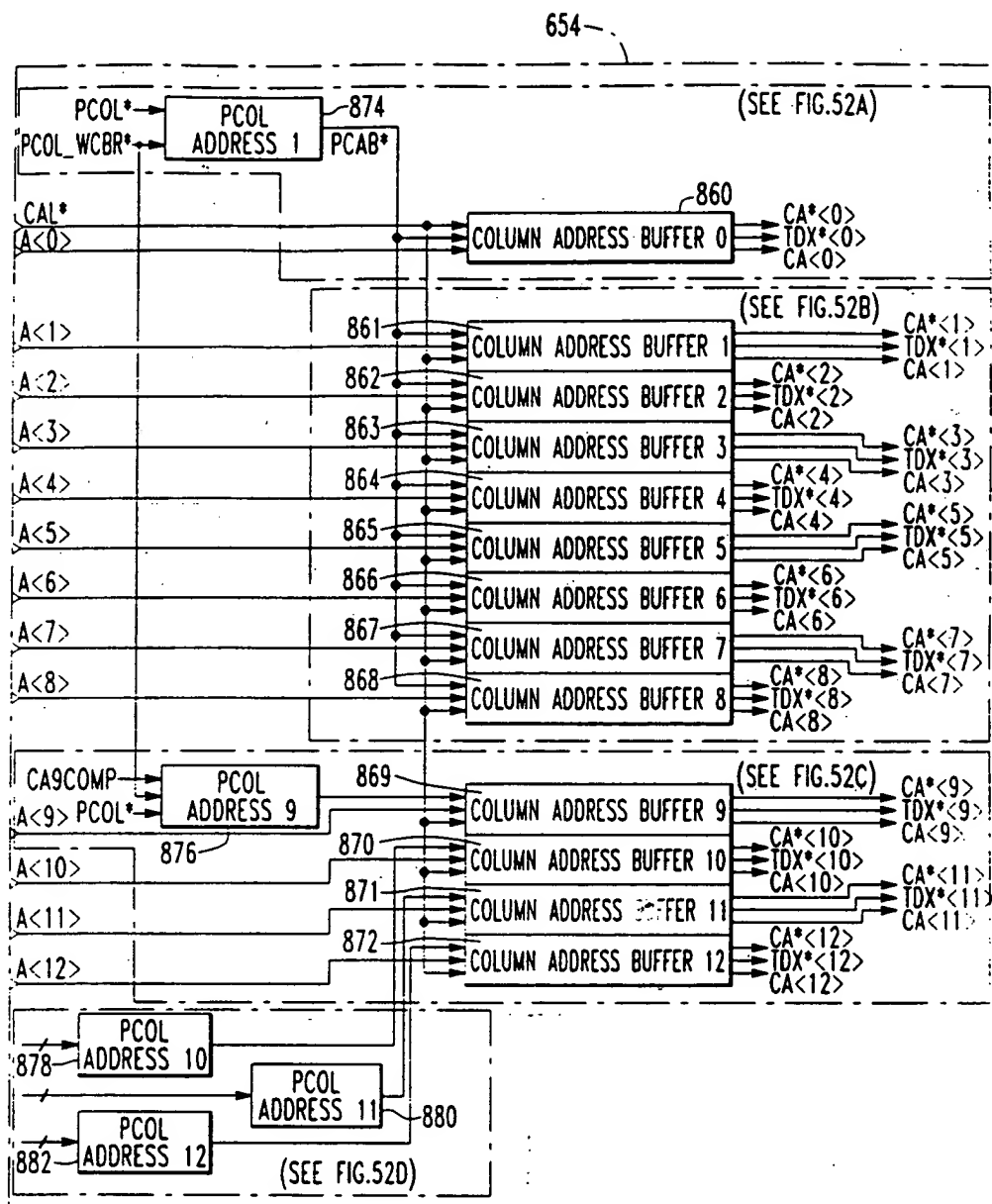
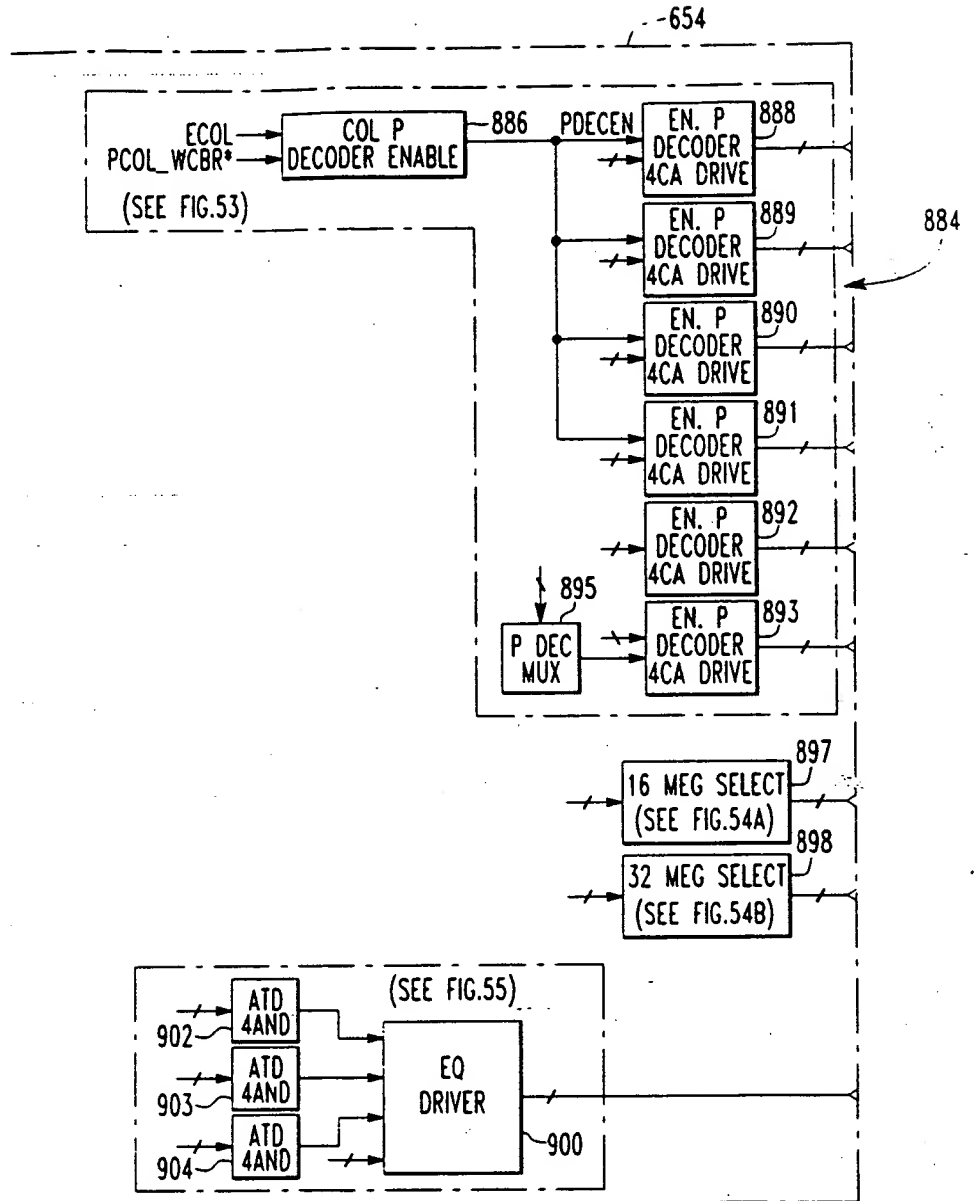
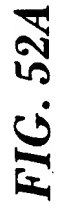
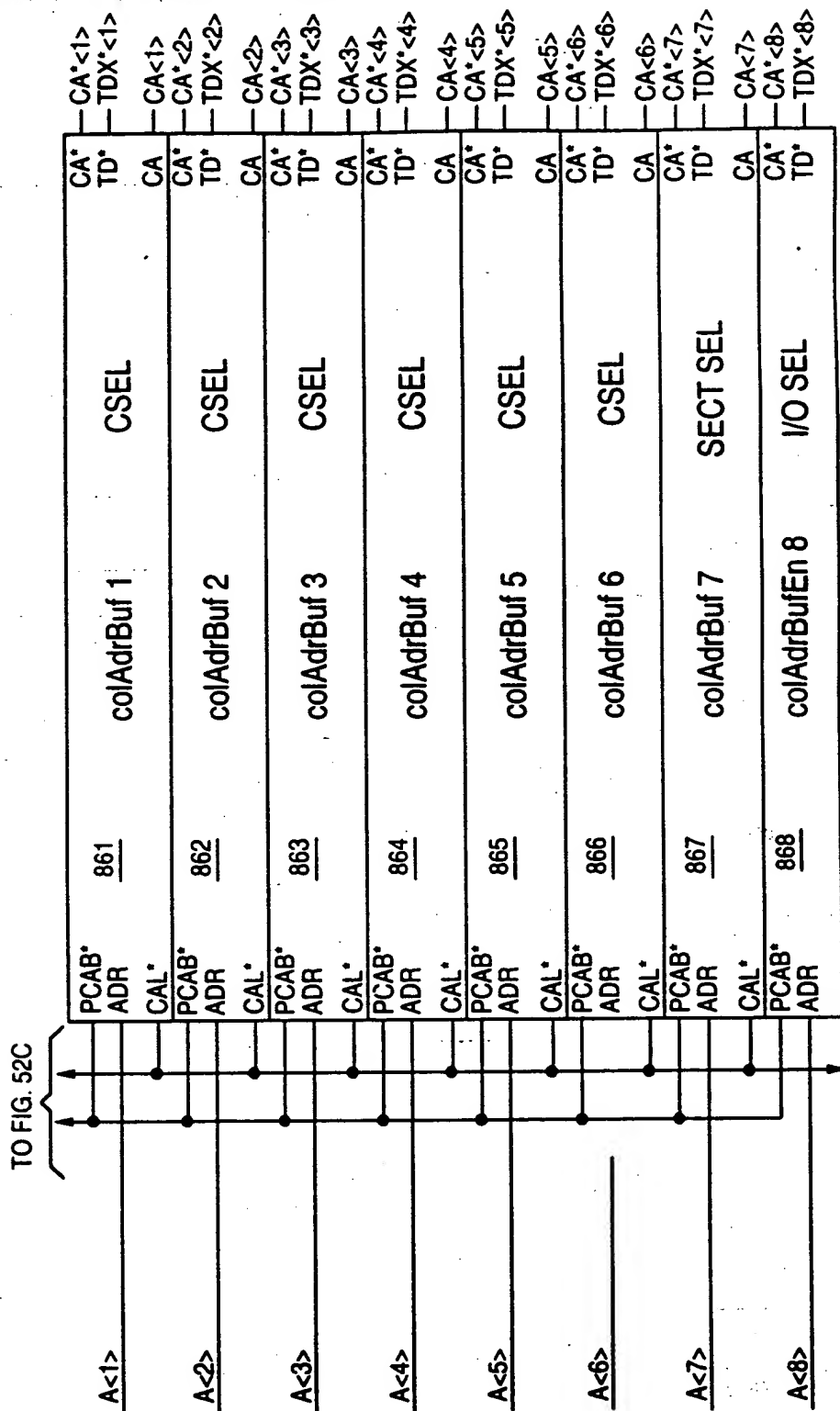


FIG. 51A





100290-71258860



TO FIG. 52C

FIG. 52B

100290-71258860

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99



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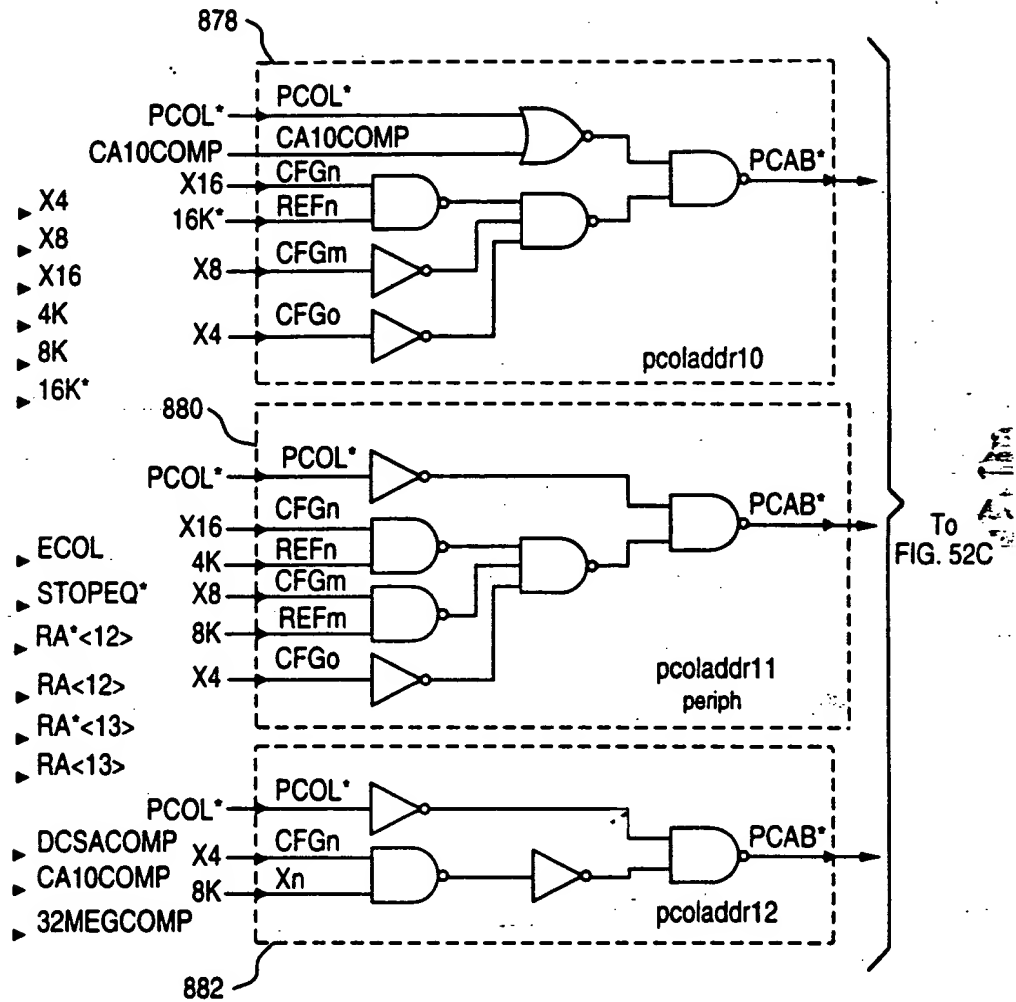


FIG. 52D

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100290-1258860

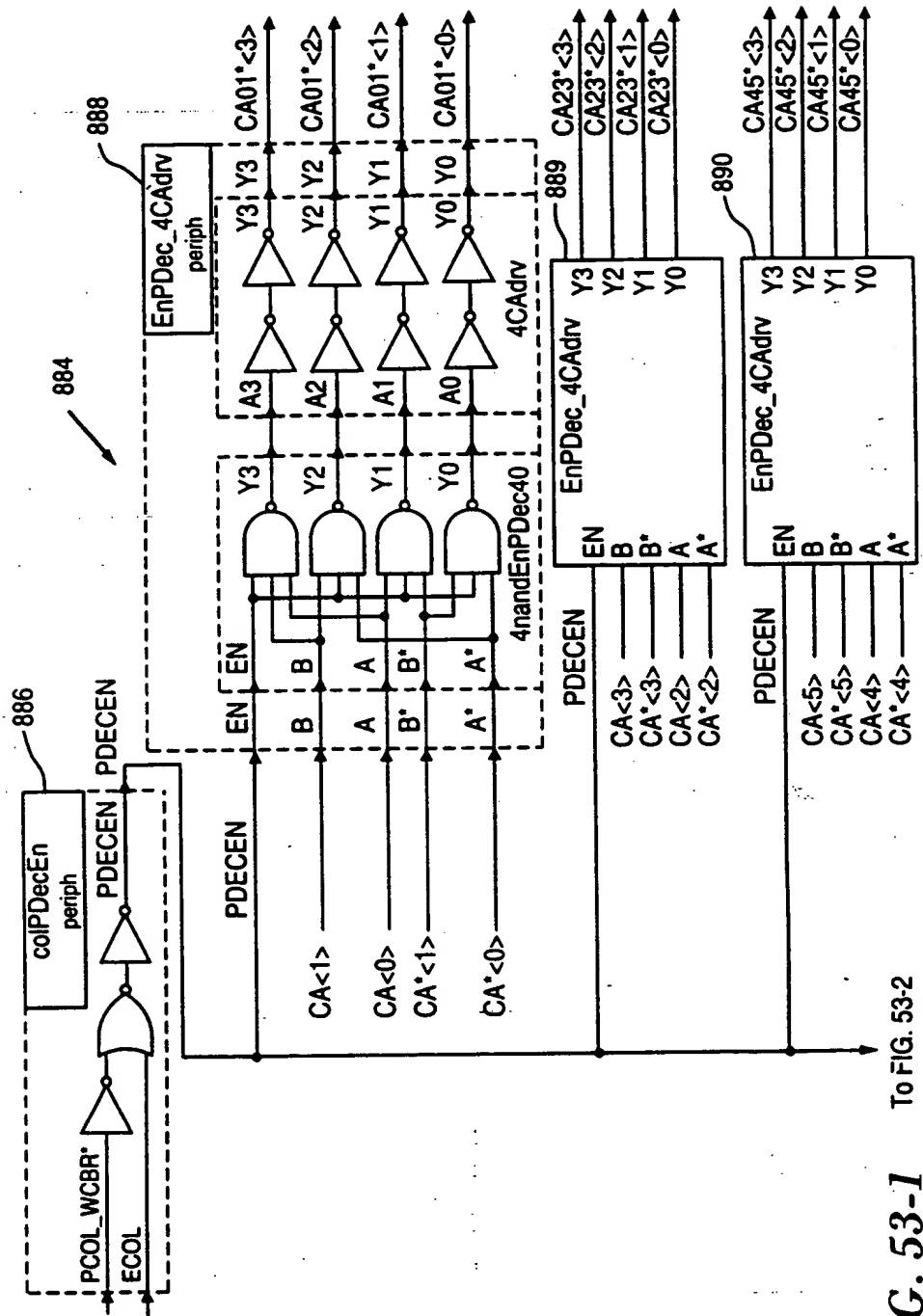


FIG. 53-1 To FIG. 53-2

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To FIG. 53-1

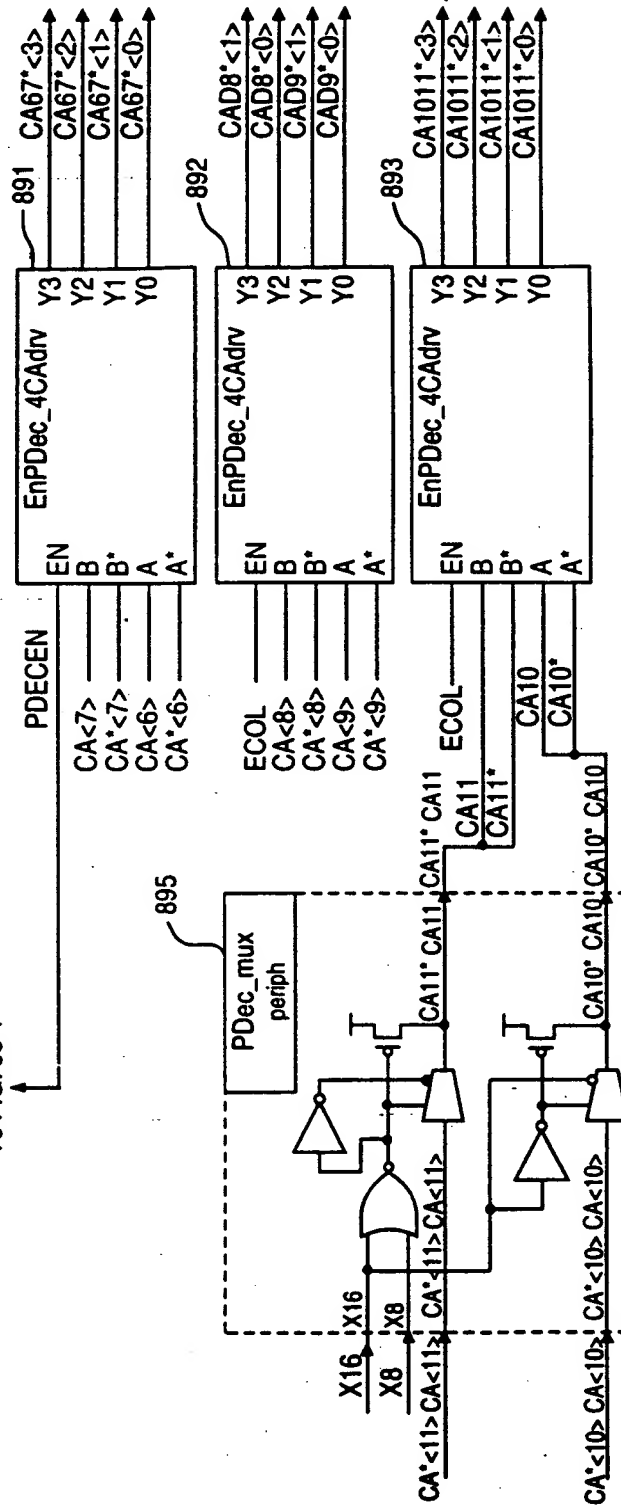


FIG. 53-2

1002906/1258860

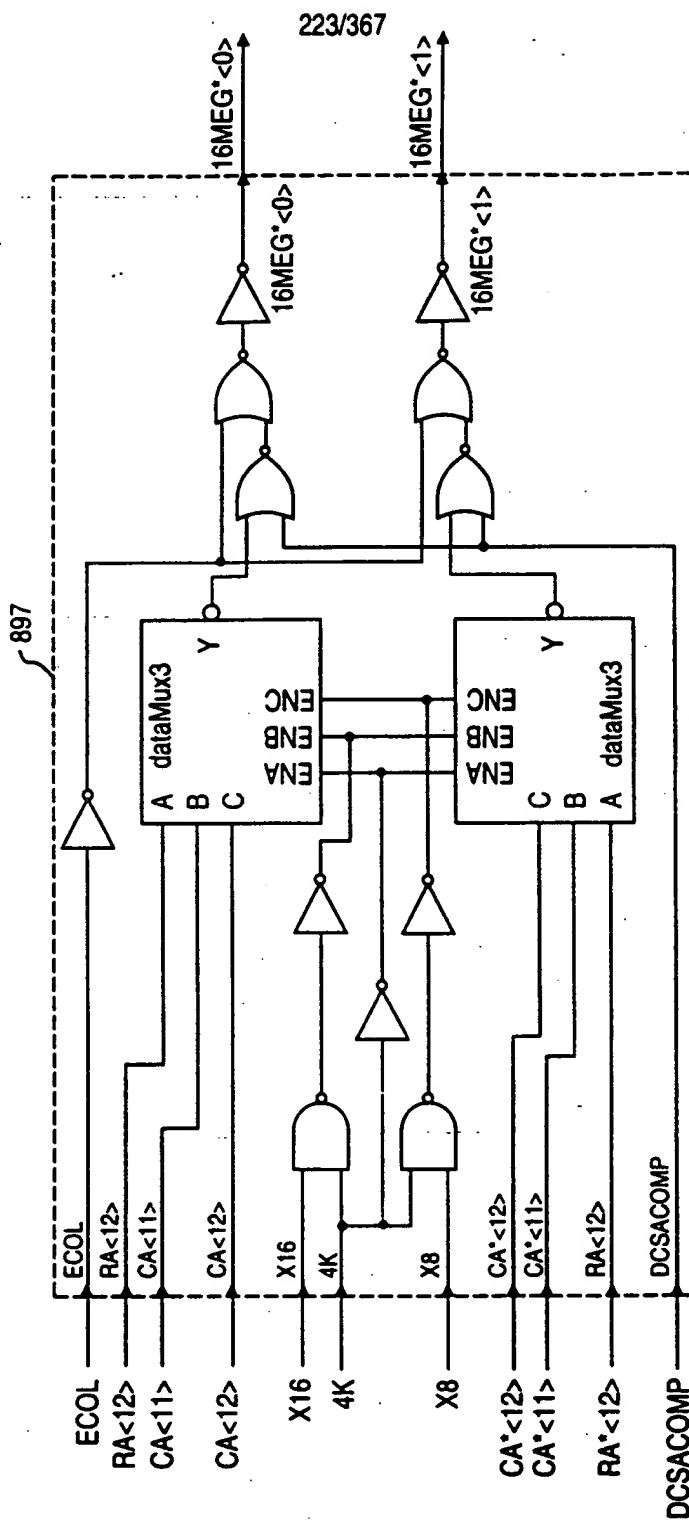


FIG. 54A

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100290/1258860

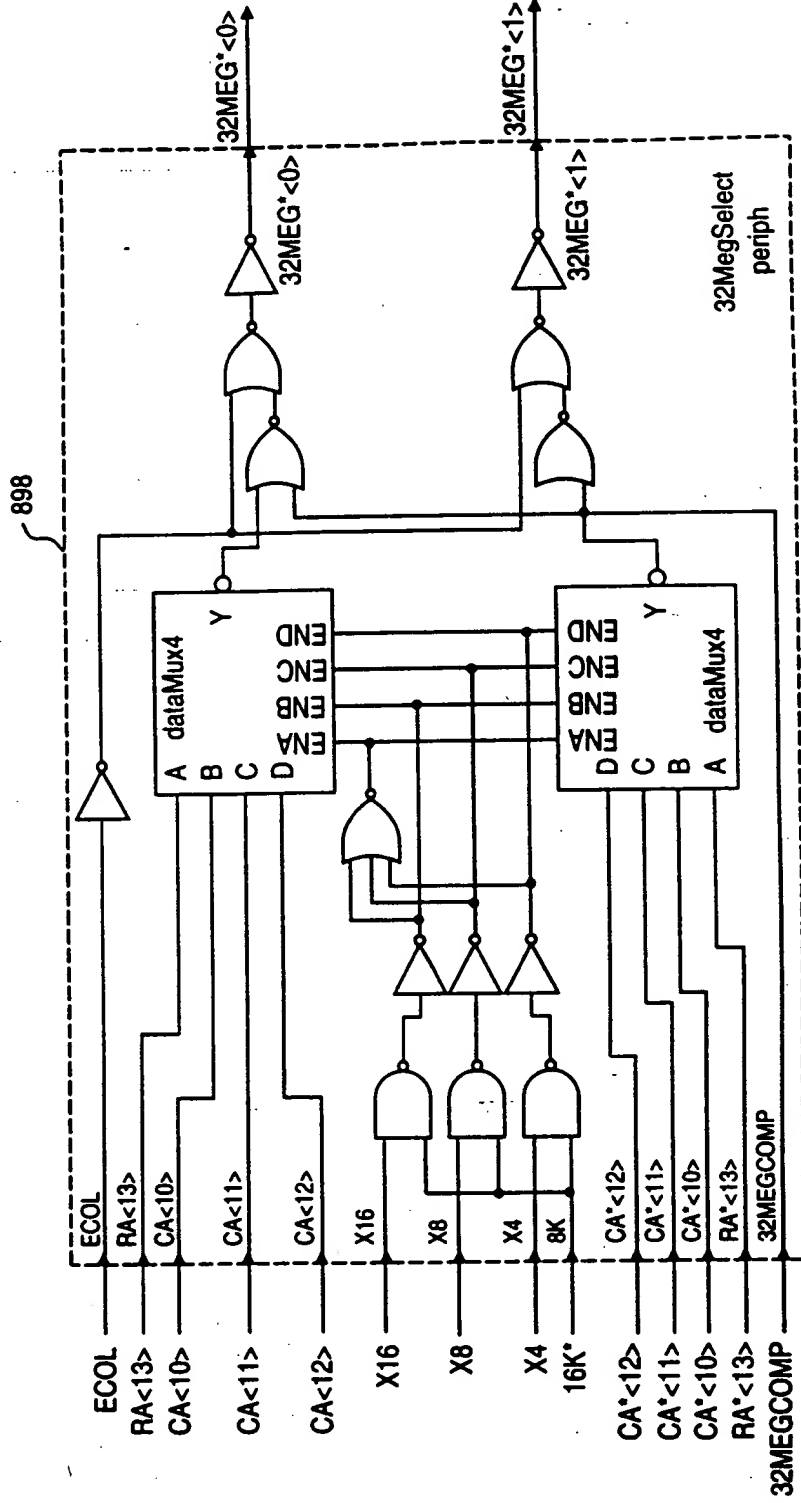


FIG. 54B

09835017 062001

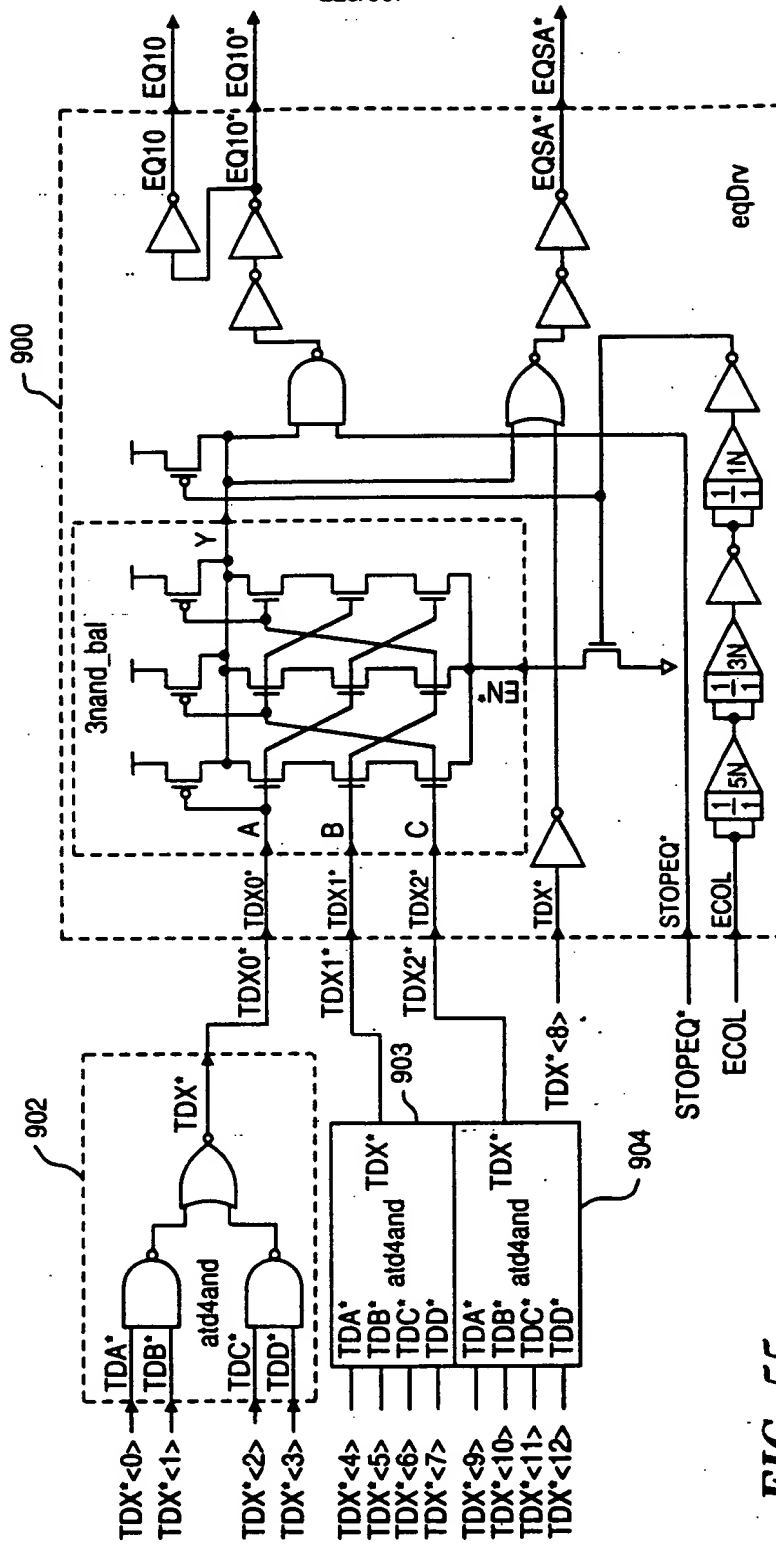


FIG. 55

100294-21258860

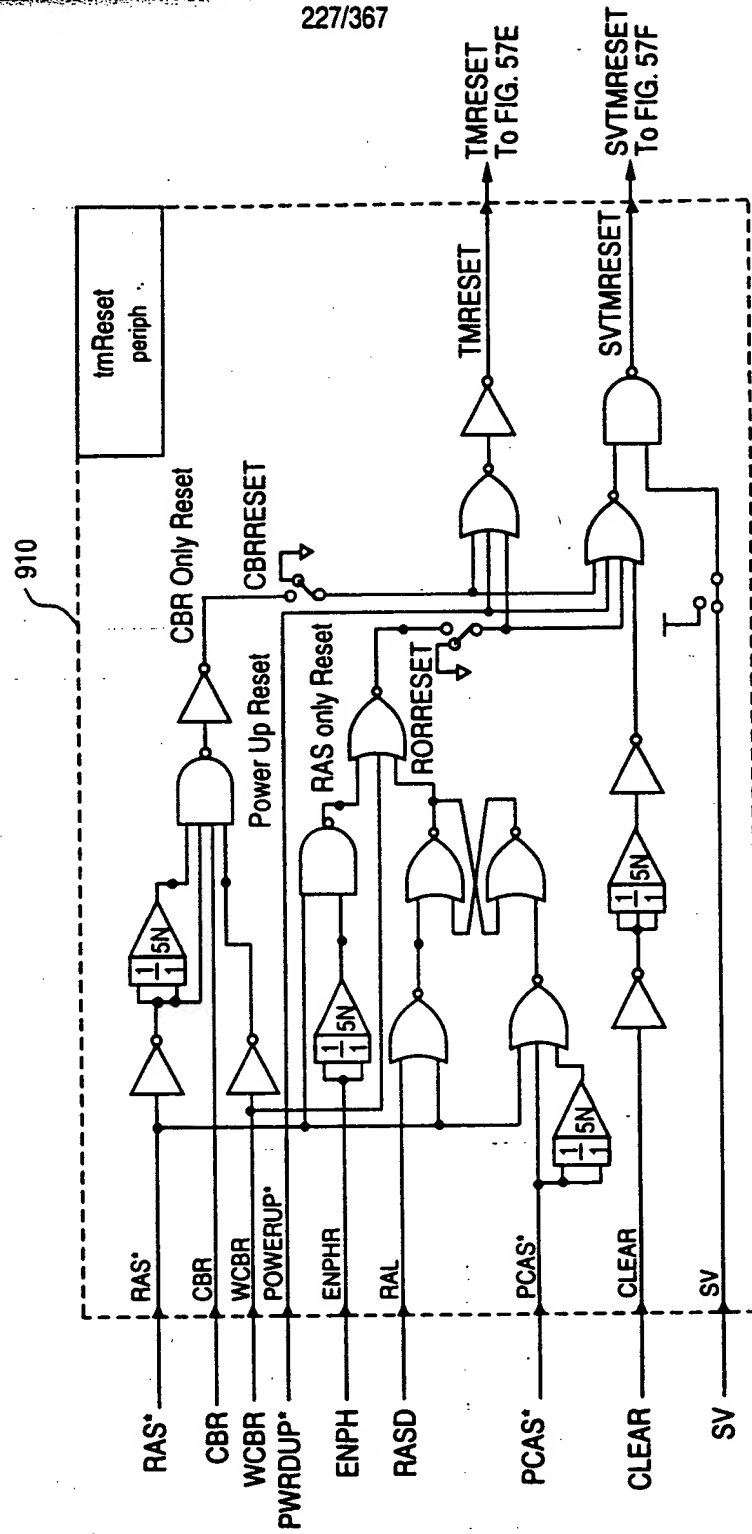


FIG. 57A

11
T00290-1258860

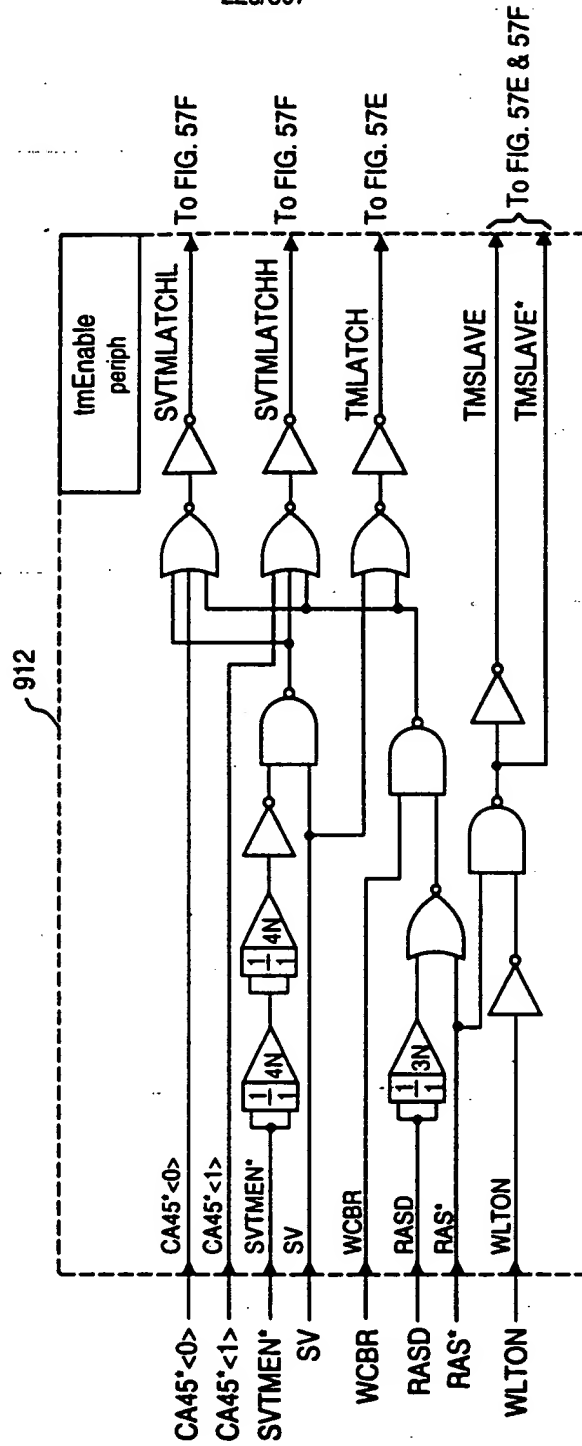


FIG. 57B

100290-21258860

914

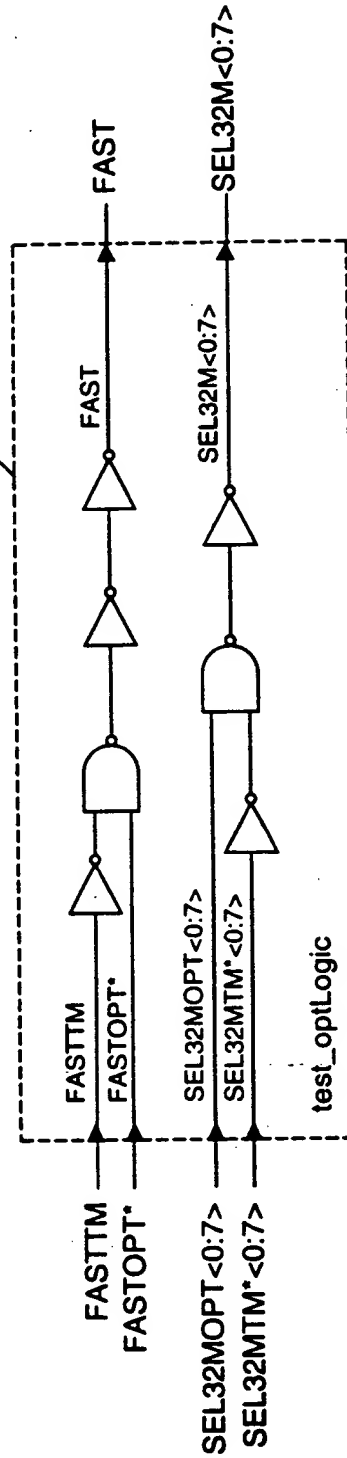
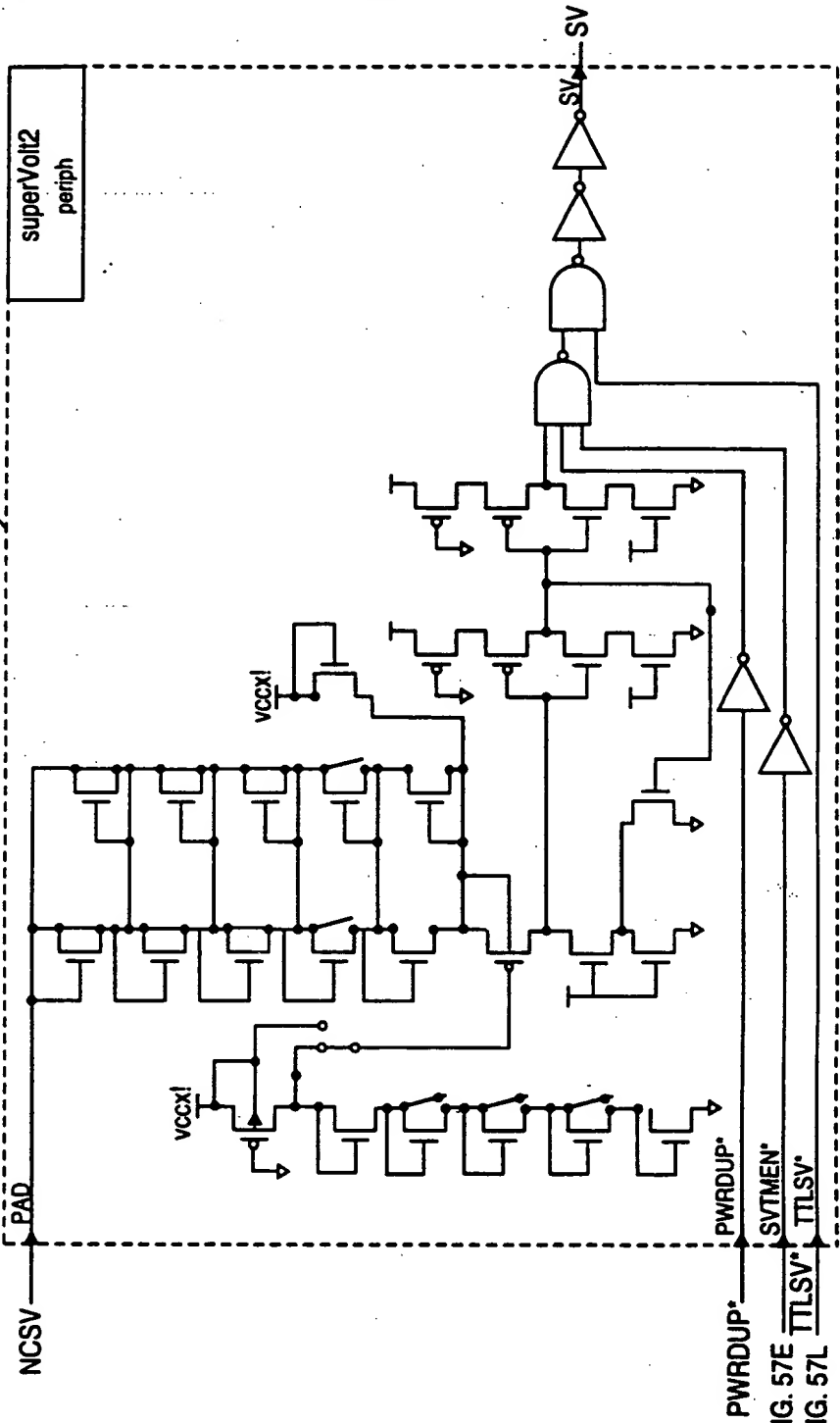


FIG. 57C

100294-21258860

916



From FIG. 57E

From FIG. 57L

FIG. 57D

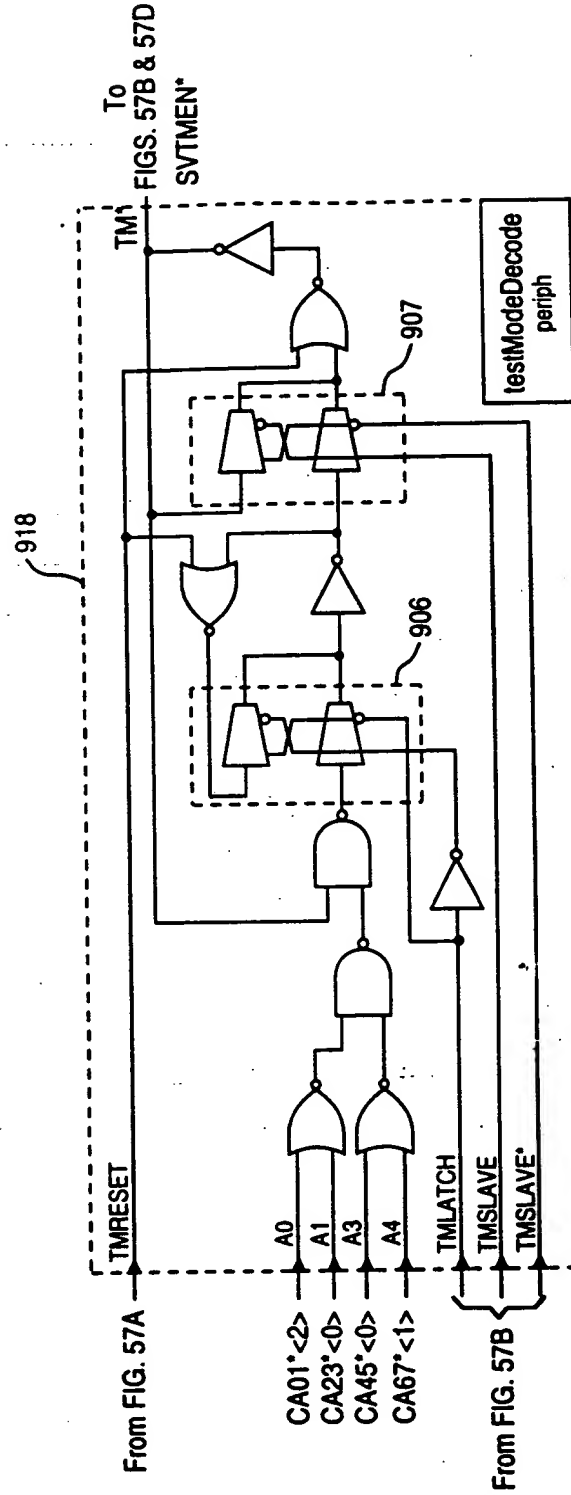


FIG. 57E

100290-2258860

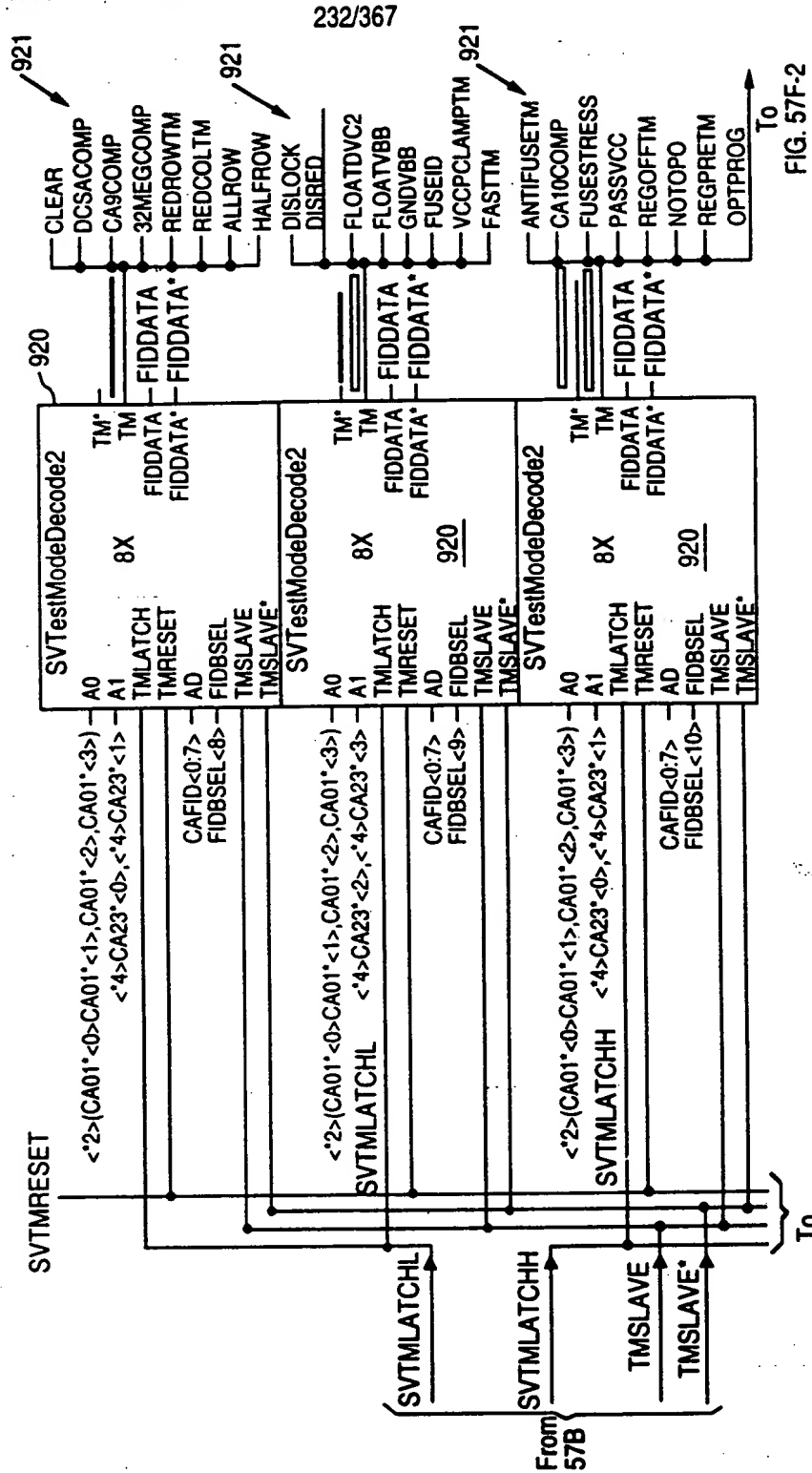


FIG. 57F-3

FIG. 57F-1

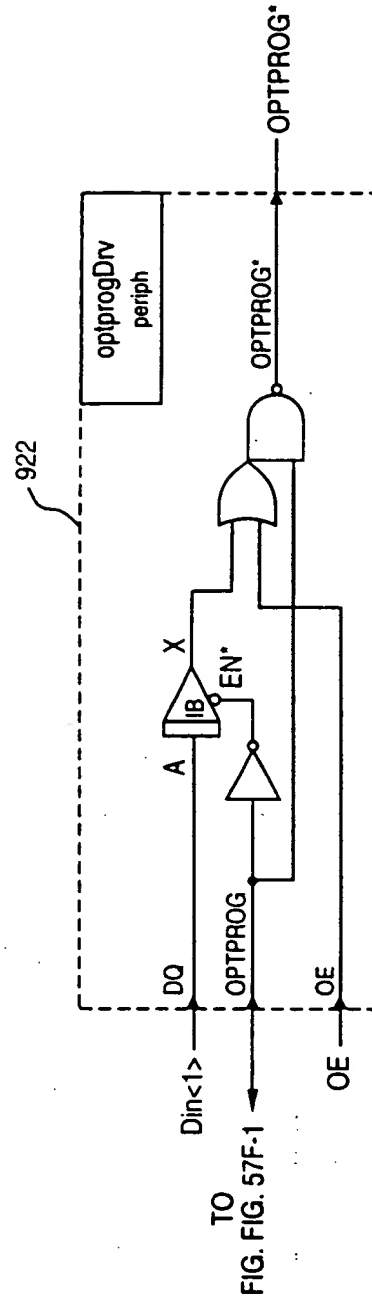


FIG. 57F-2

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To
FIG. 57F-1

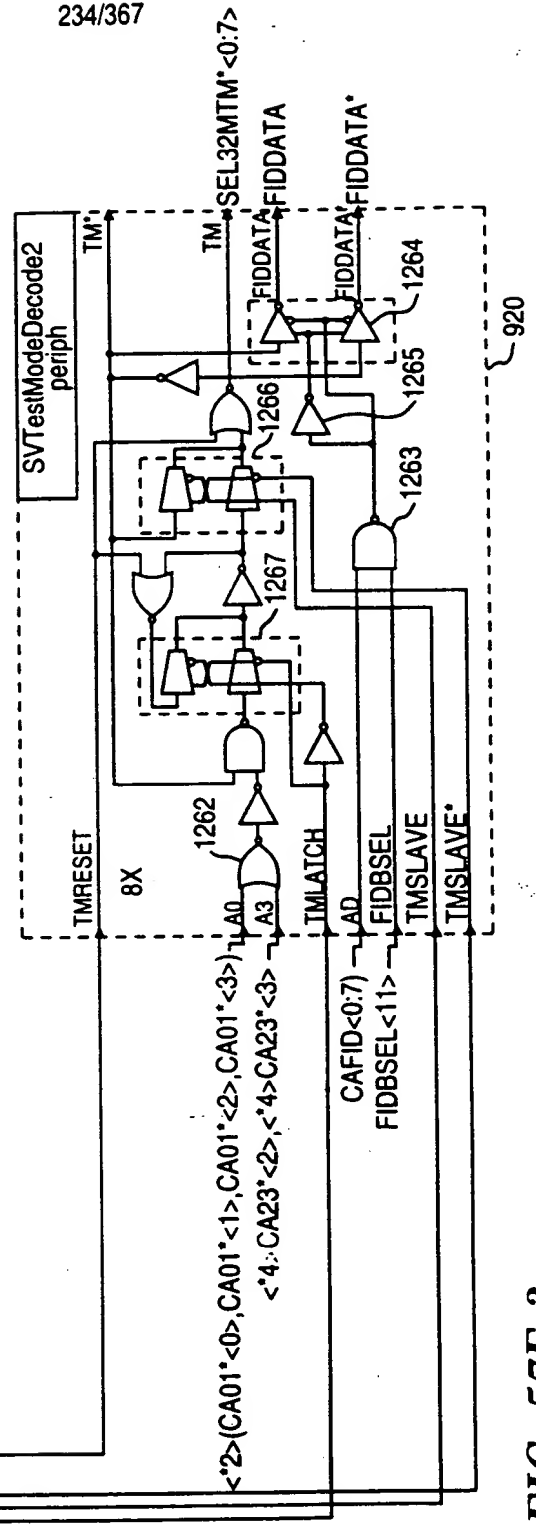


FIG. 57F-3

U.S. DEPARTMENT OF AGRICULTURE

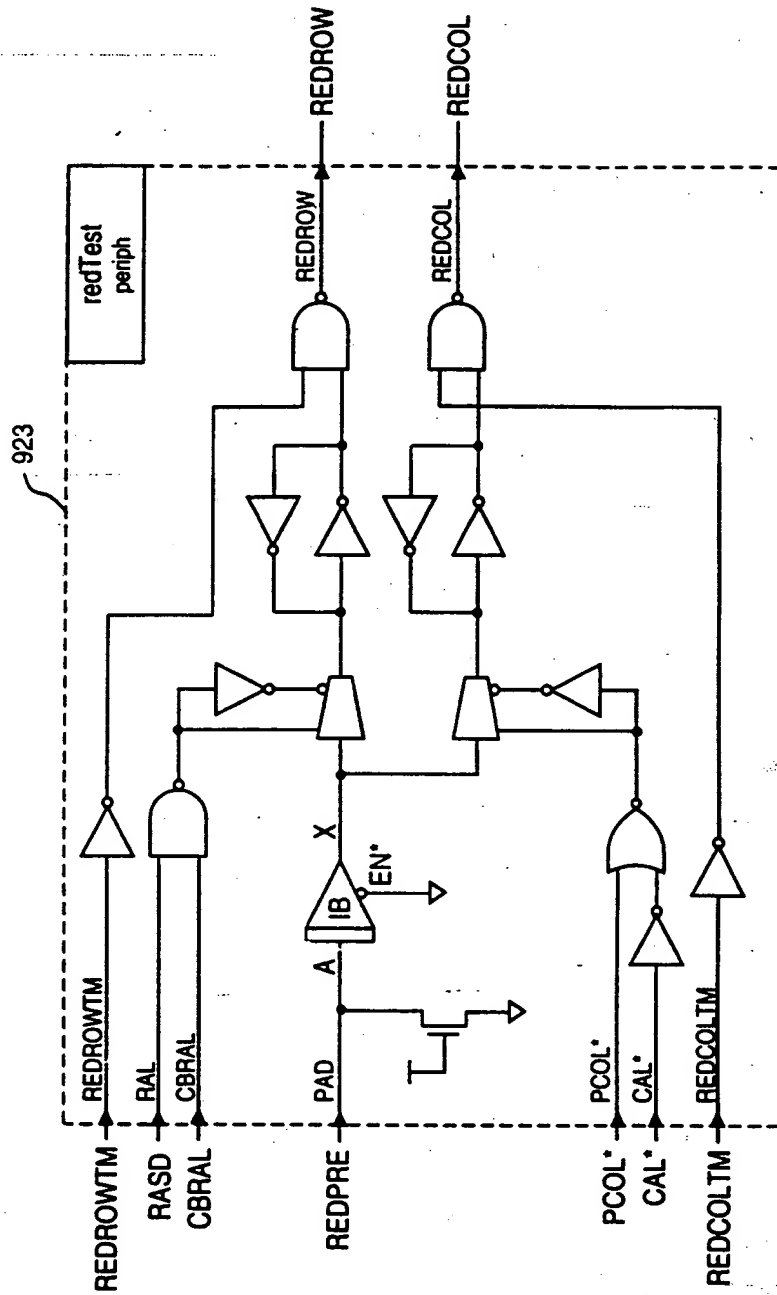


FIG. 57G

00290-125860

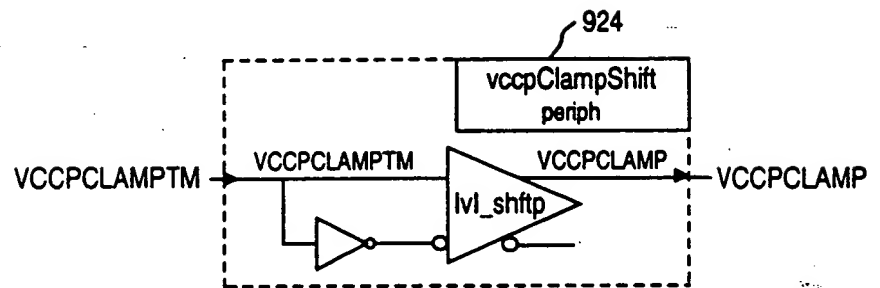


FIG. 57H

09885217-052001

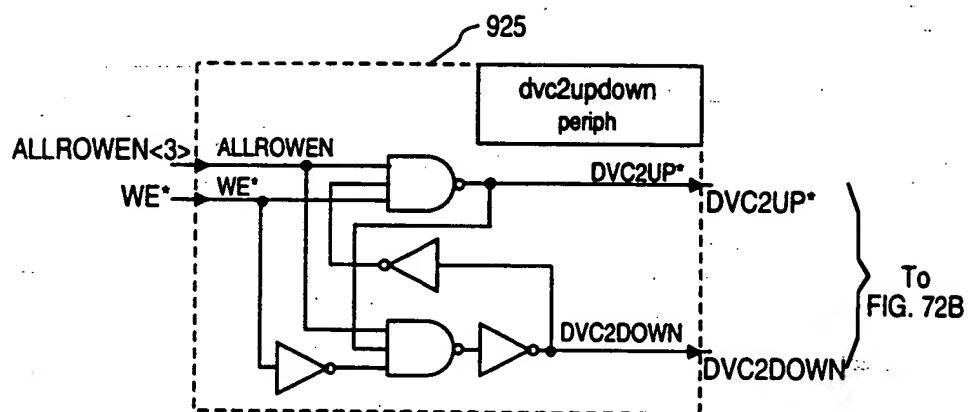


FIG. 57I

09885217:062001

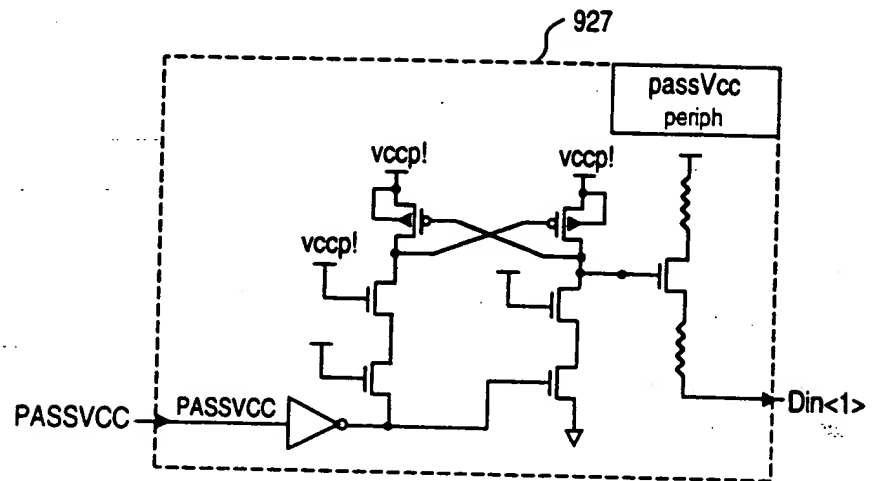


FIG. 57K

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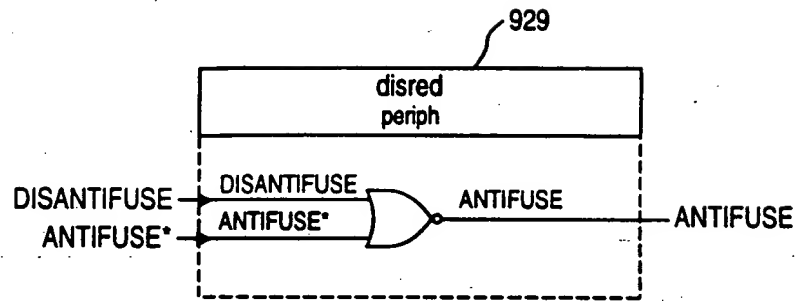


FIG. 57M

100290-1258860

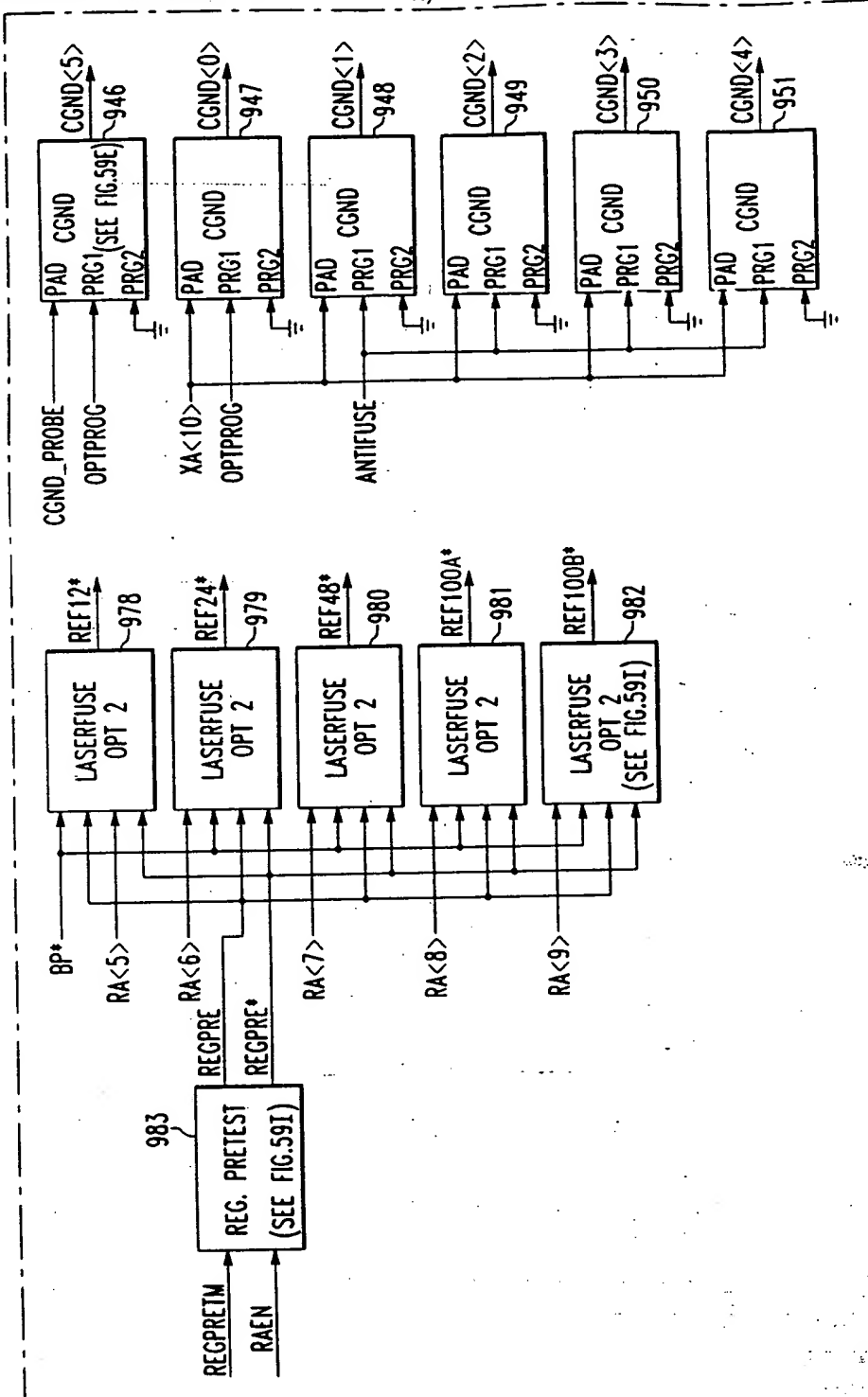


FIG. 58B

153857-1062

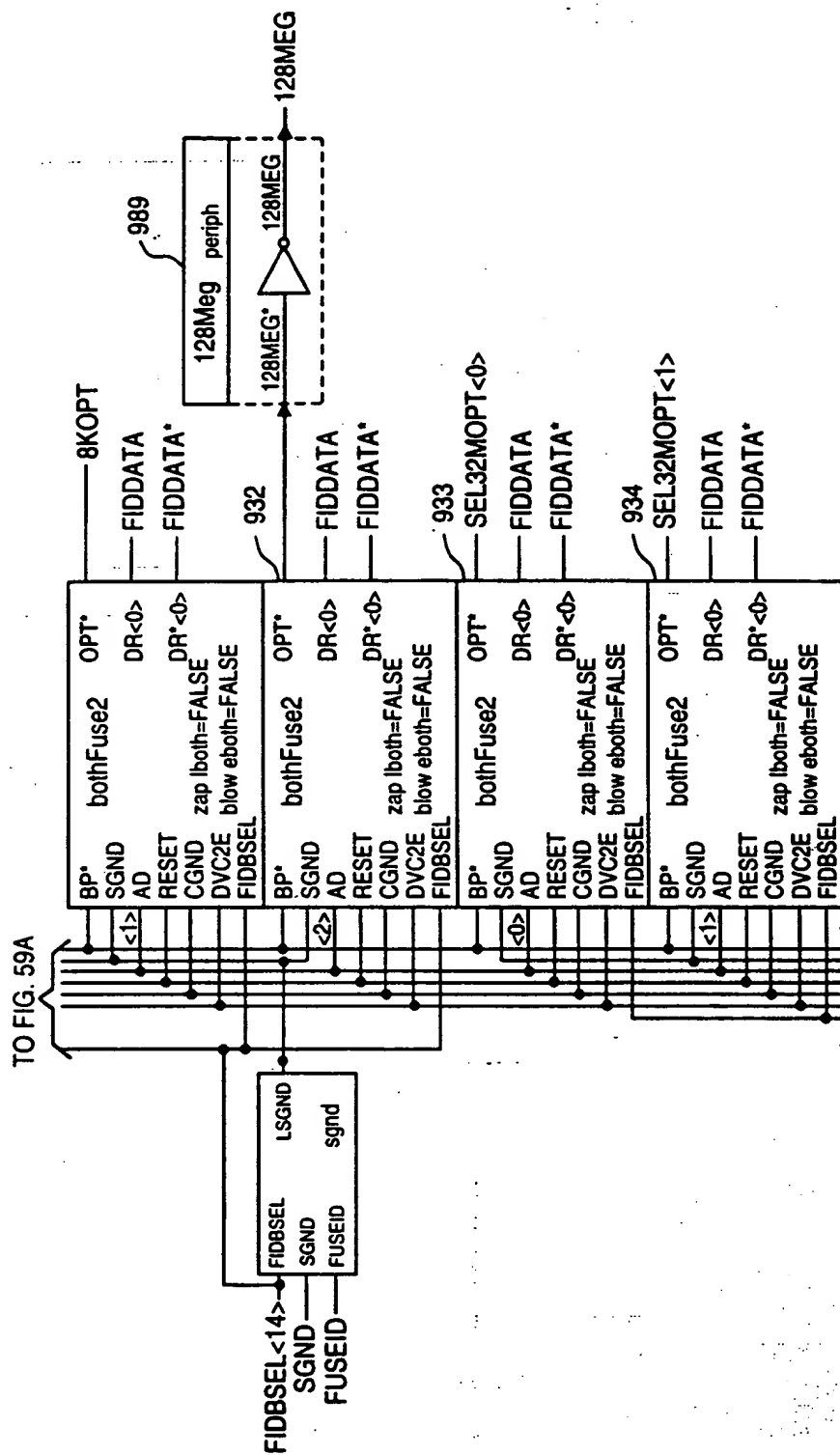


FIG. 59B-1

11
100290-1258860

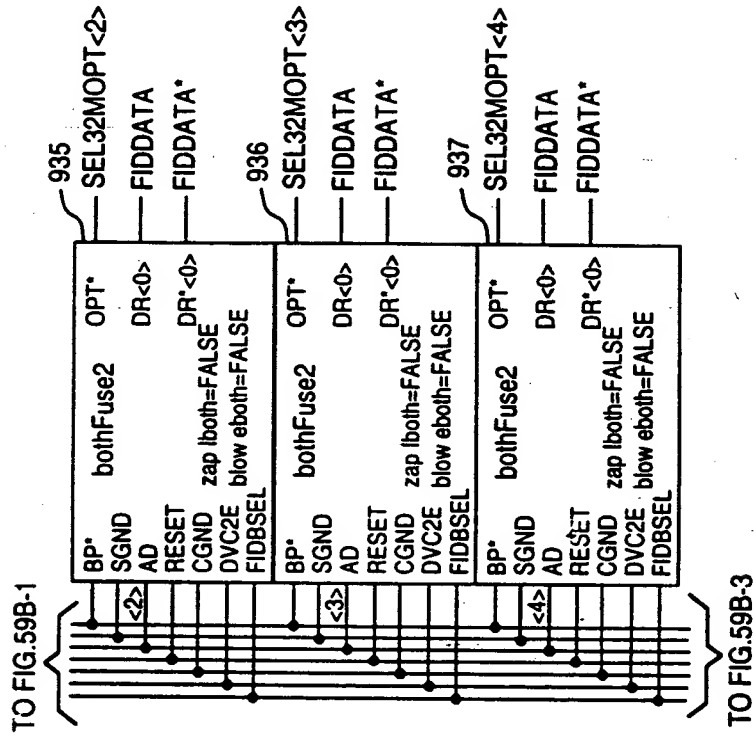


FIG. 59B-2

100290-1258860

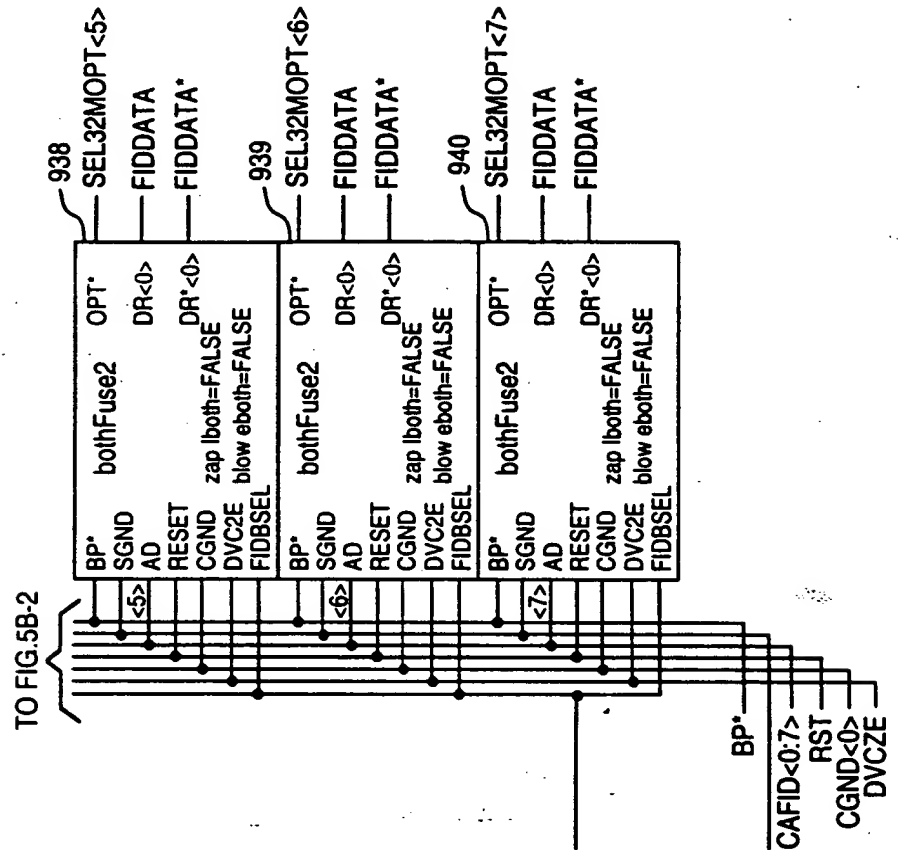


FIG. 59B-3

100290-1258860

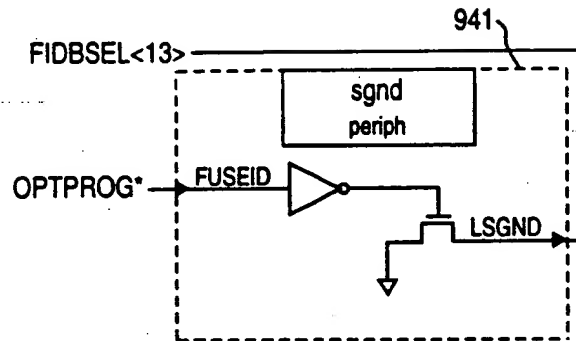


FIG. 59C

100296-1258860

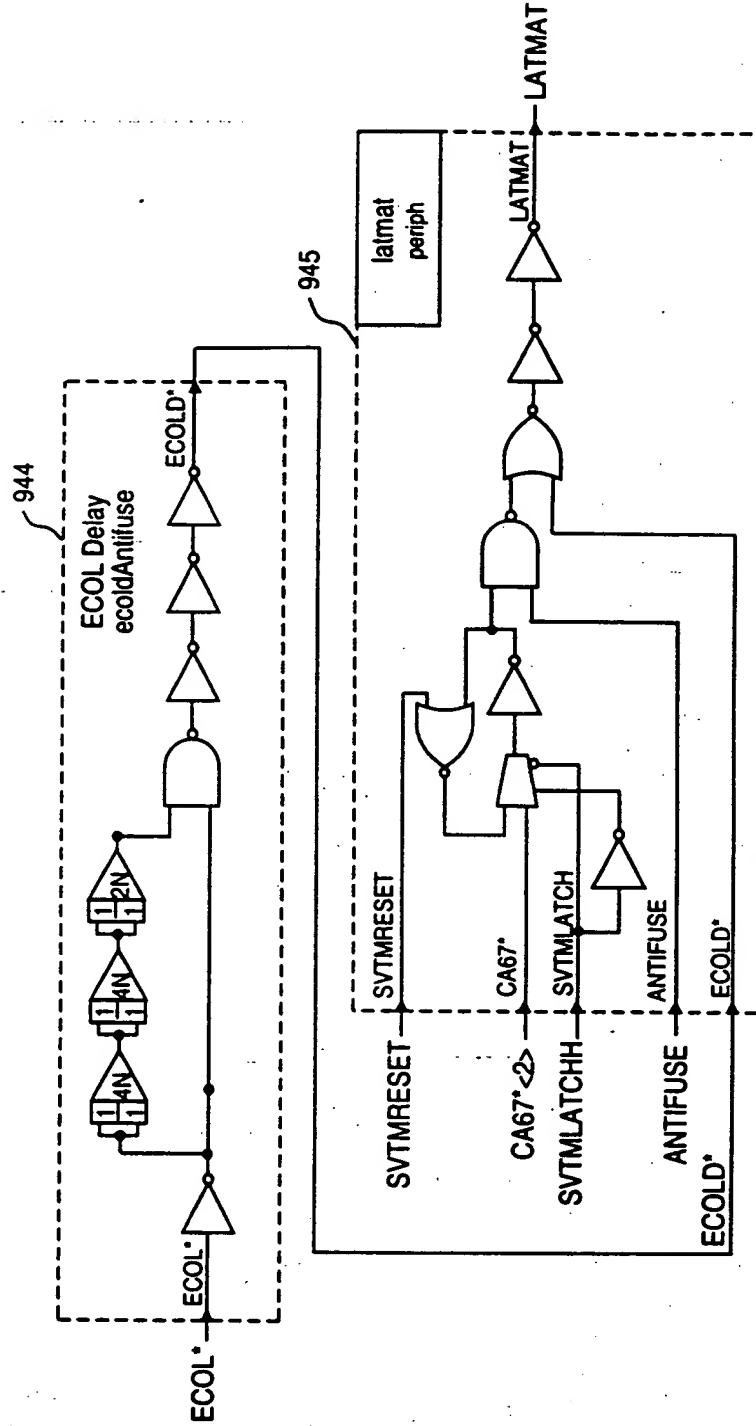


FIG. 59D

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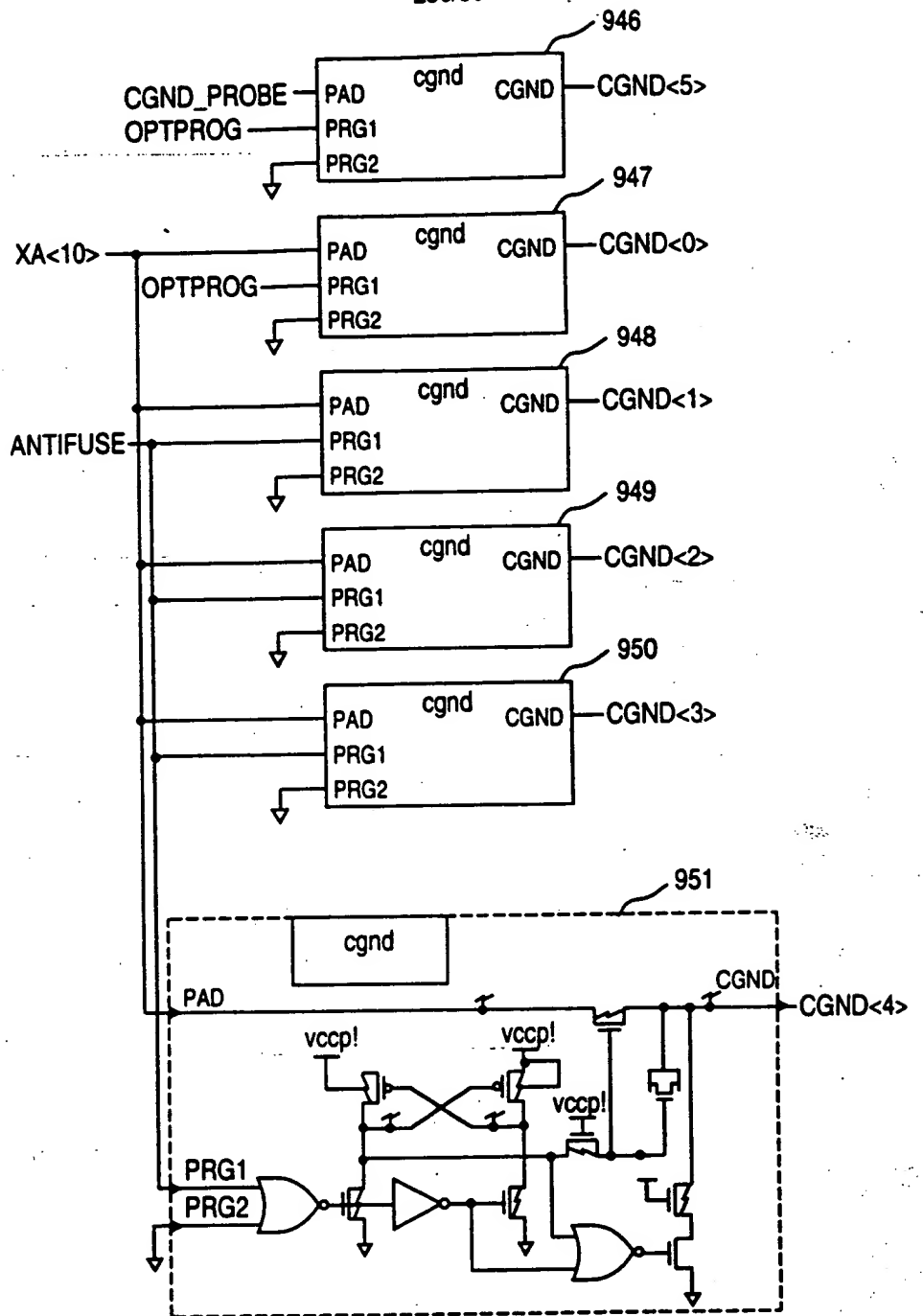


FIG. 59E

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To
FIG.
59F-2

100290: 21258860

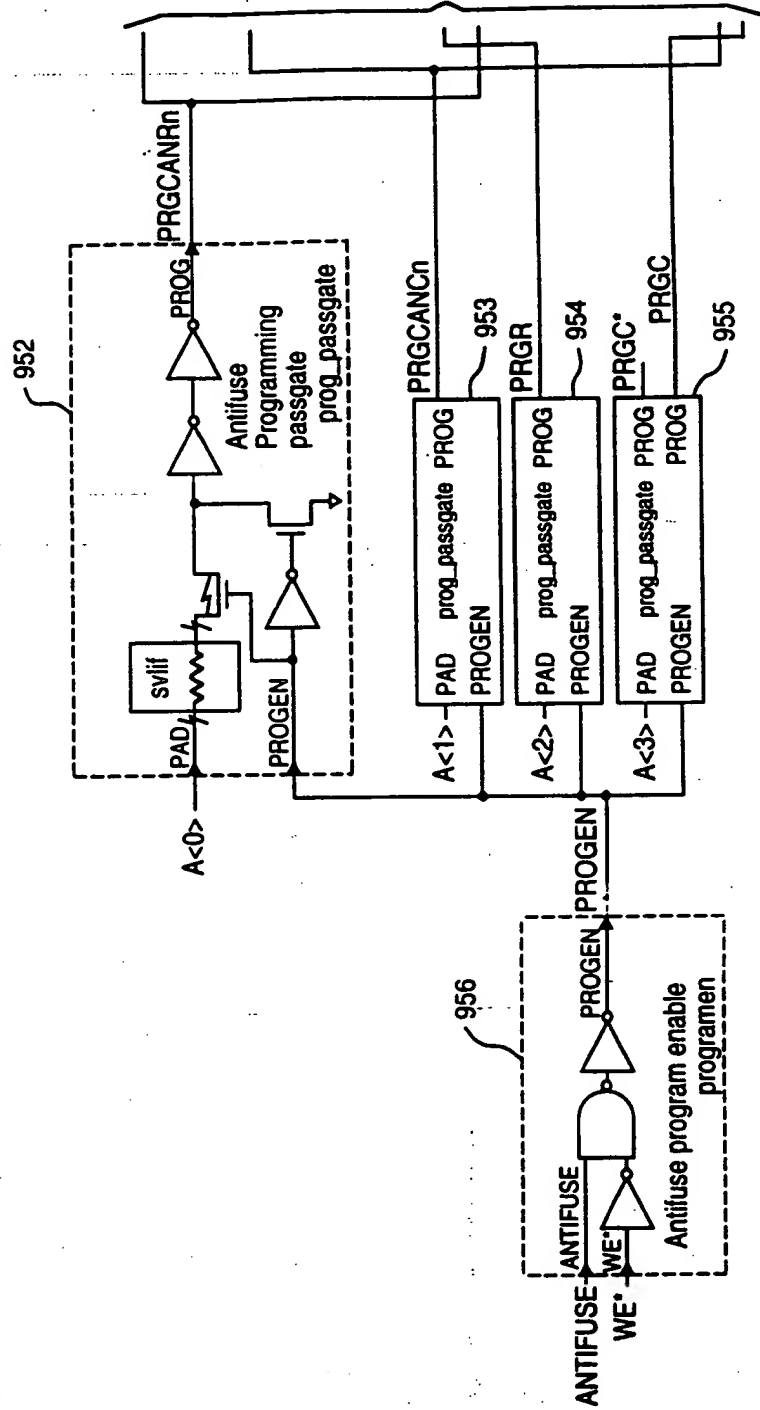


FIG. 59F-1

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11
T00290-1258860

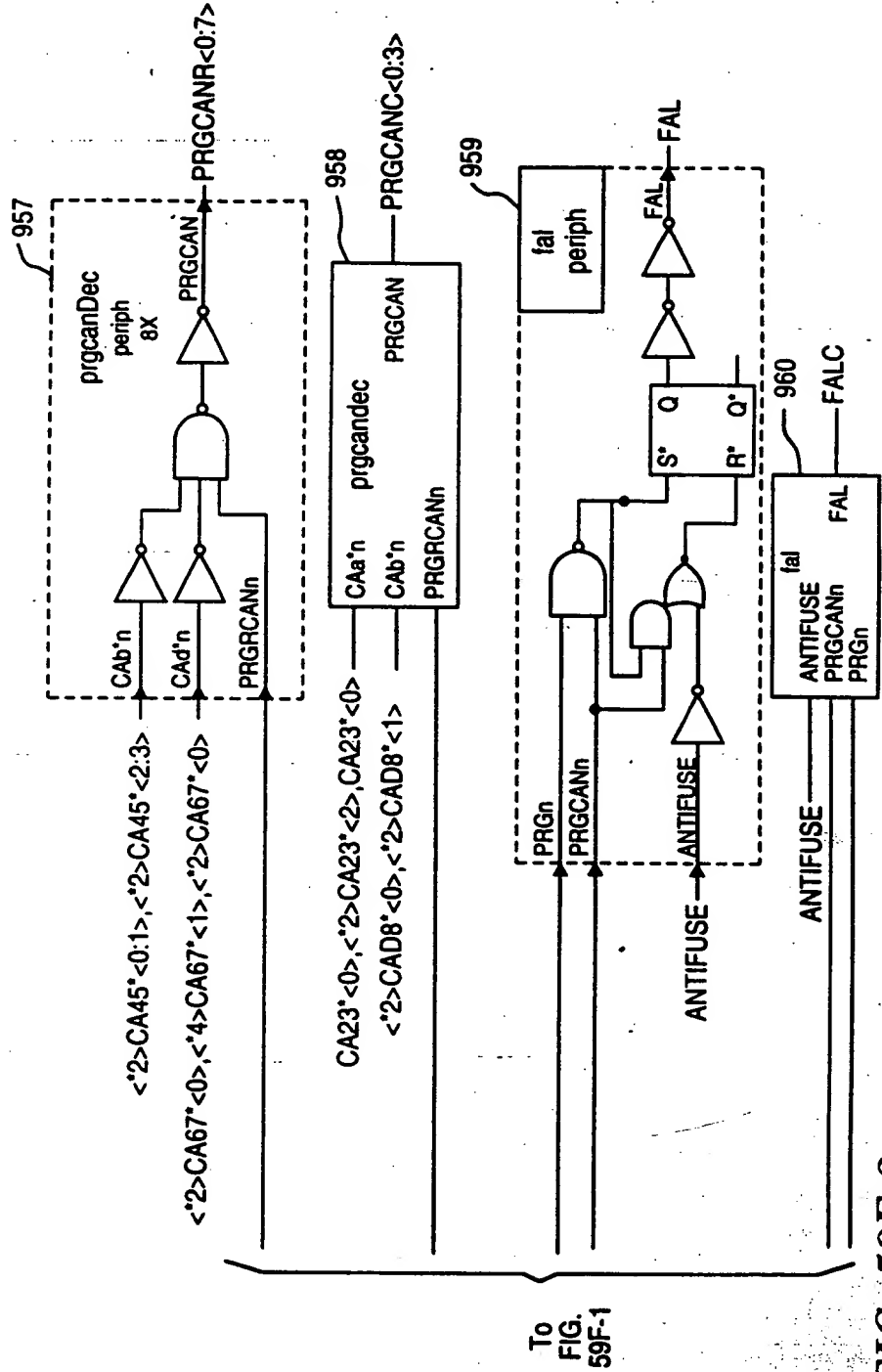


FIG. 59F-2

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100290-1258860

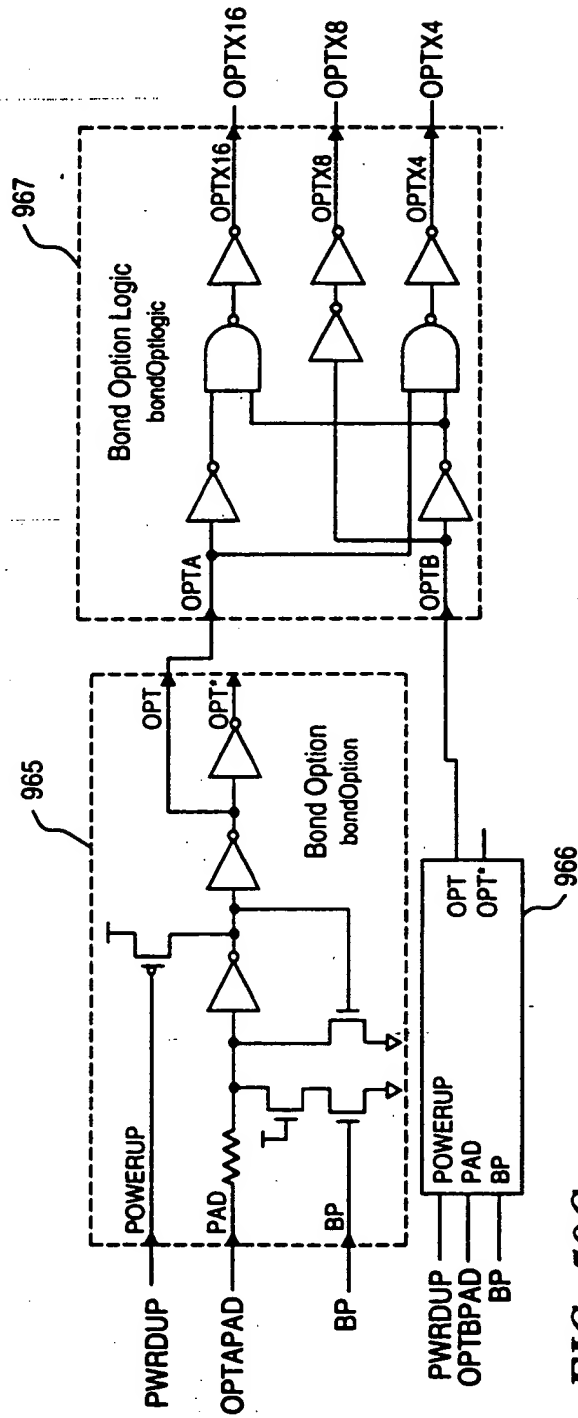


FIG. 59C

100250-125860

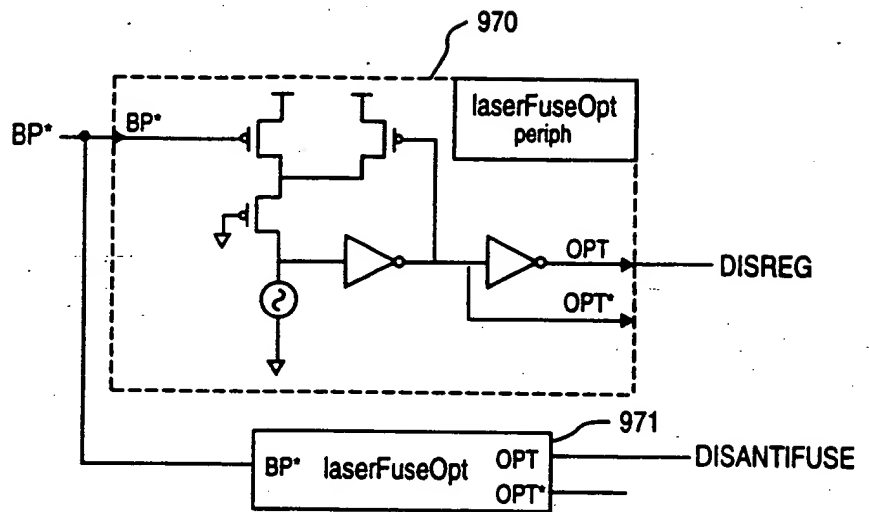


FIG. 59H

11
100290-1258860

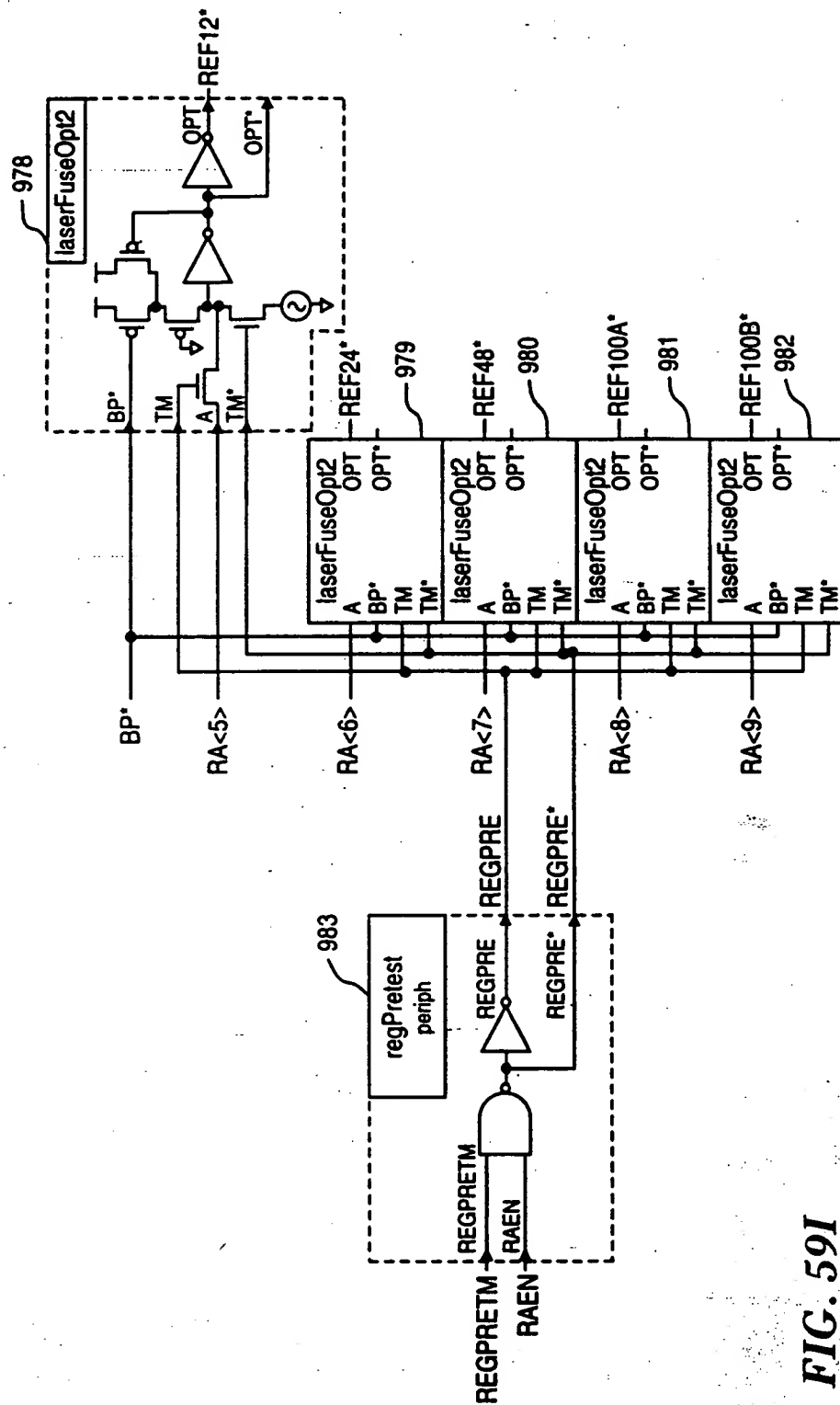


FIG. 59I

09885217-062001

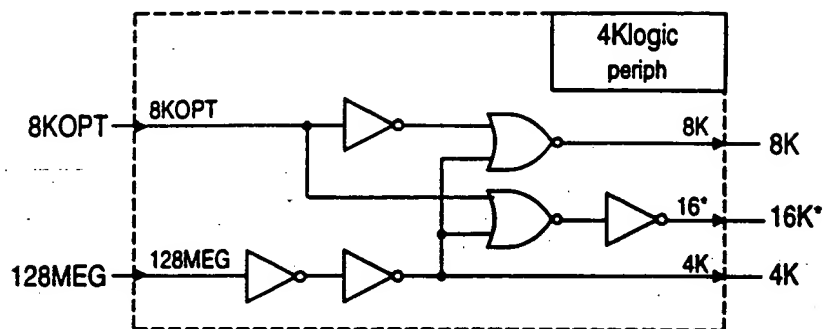


FIG. 59J

SECRET

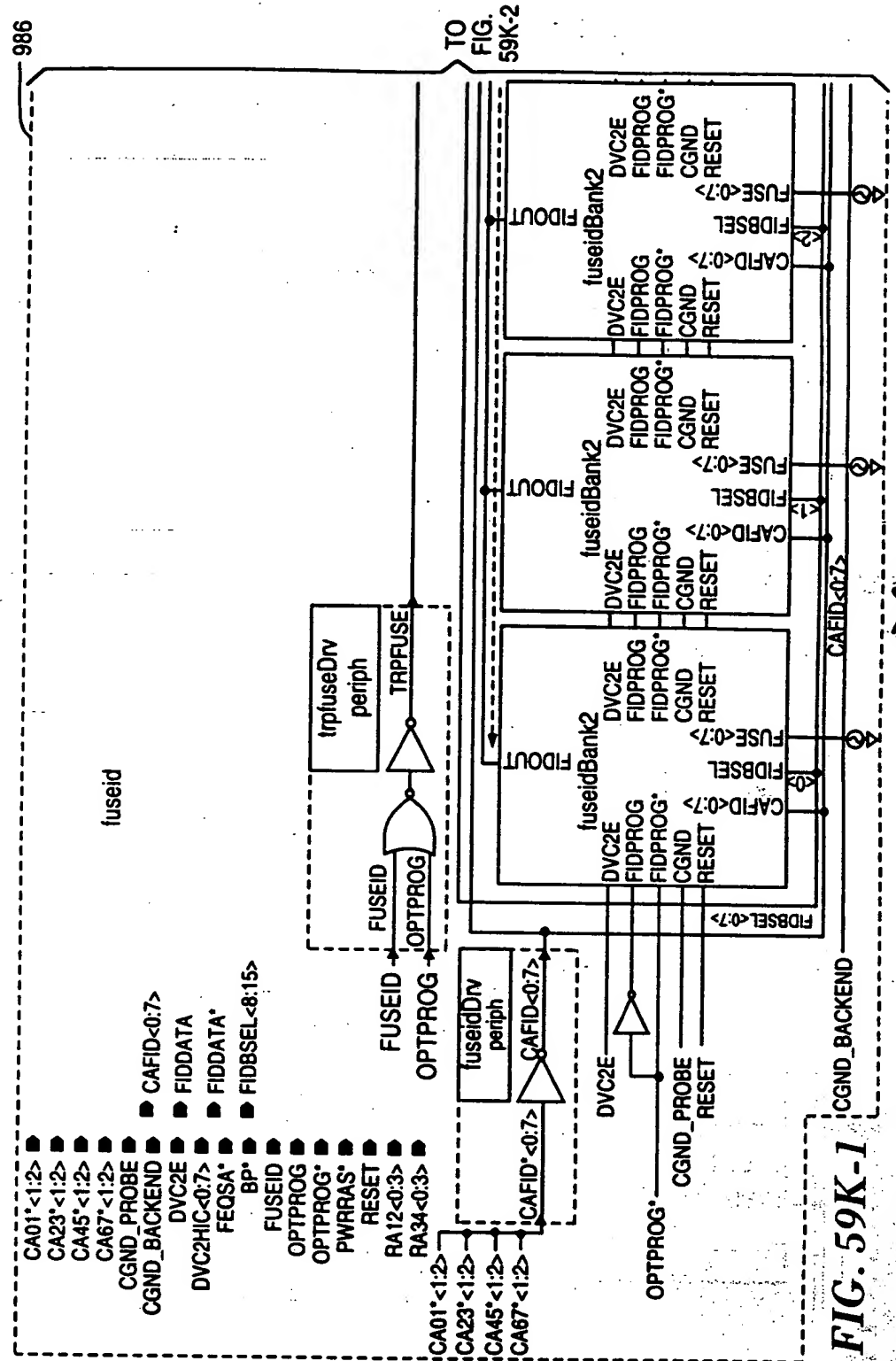


FIG. 59K-1

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11
T00290-1258860

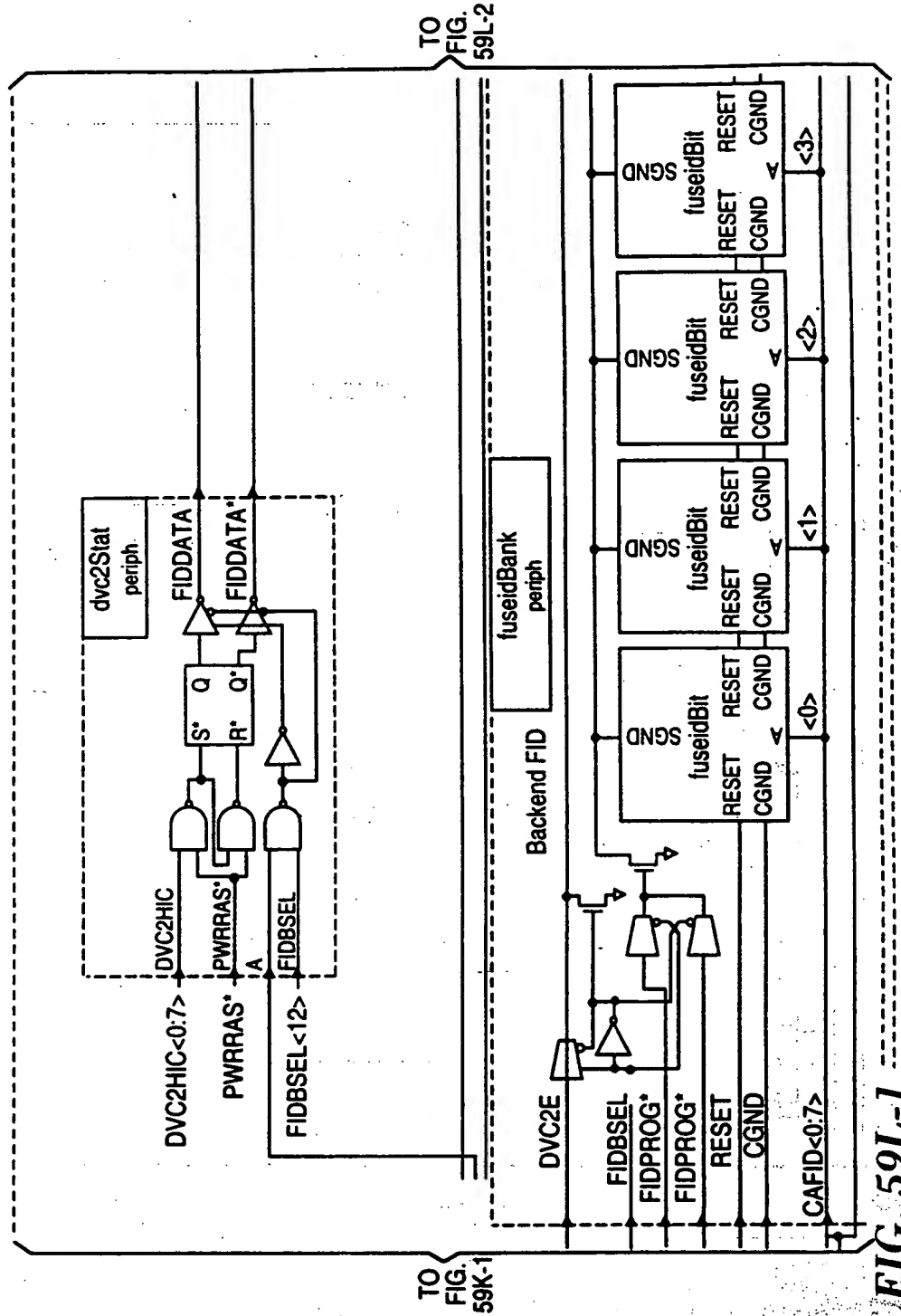


FIG. 59L-1

100290-71258860

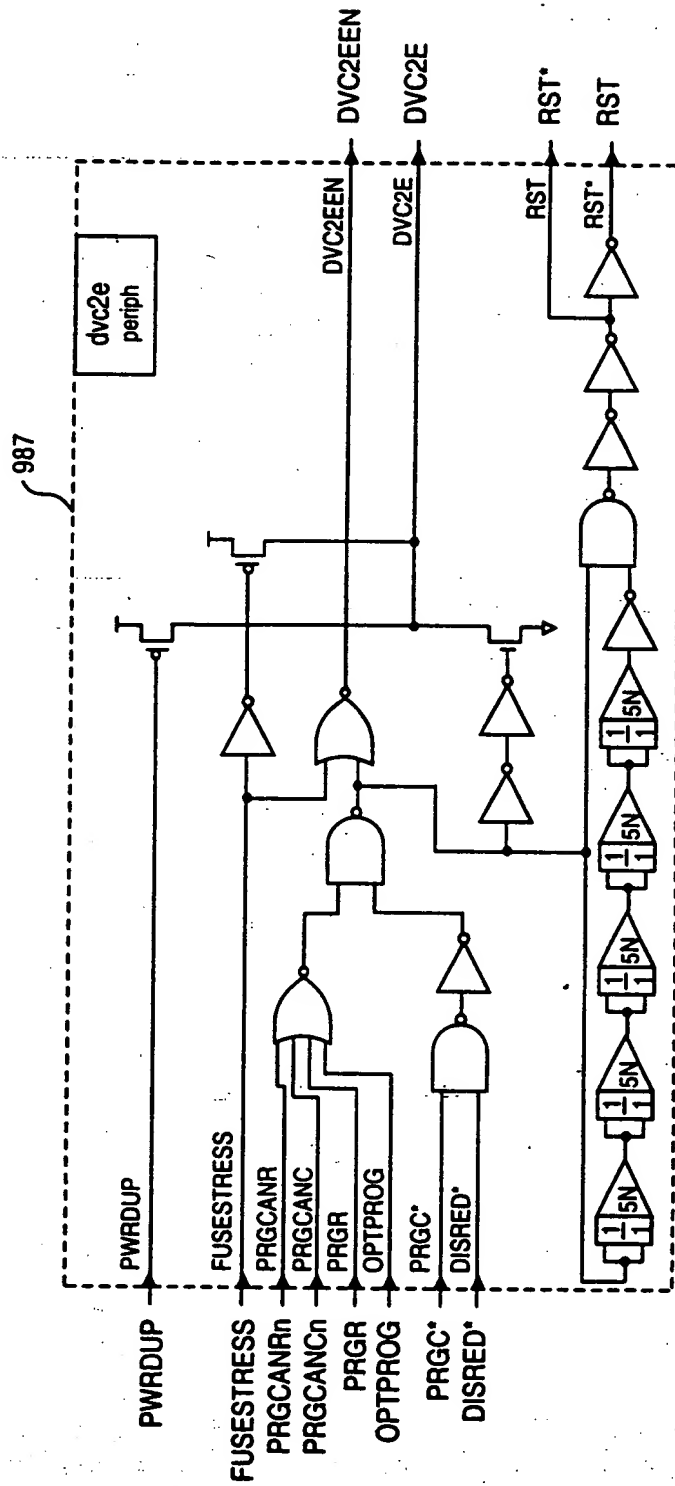


FIG. 59M

09885217.962001

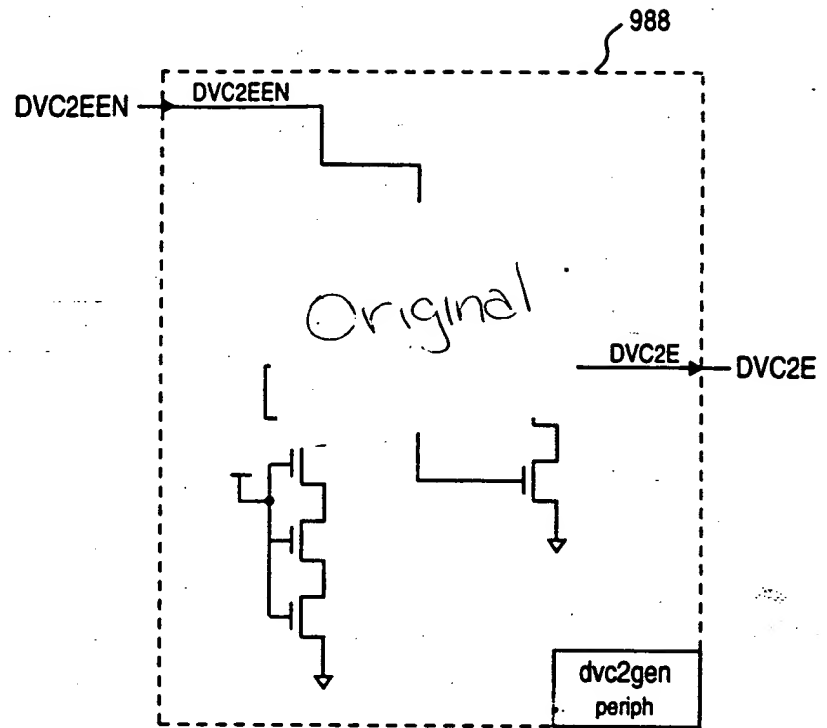


FIG. 59N

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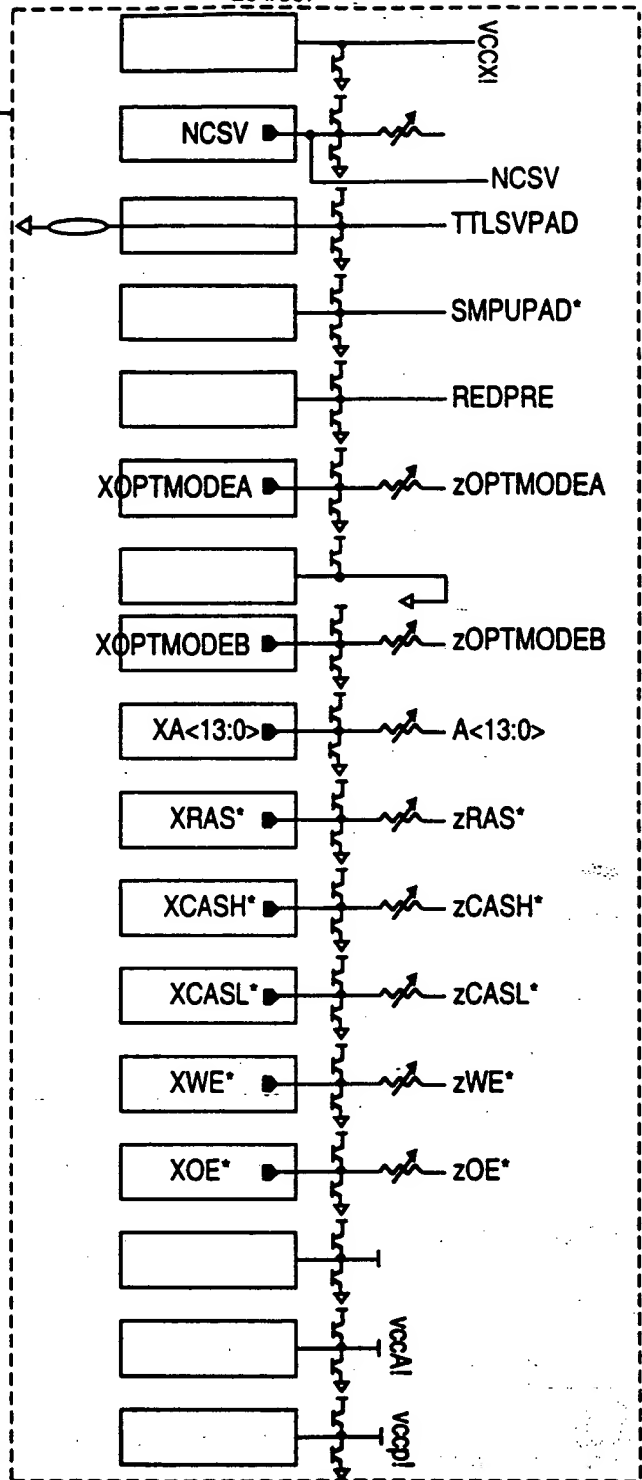


FIG. 59P

09885217-052001

09885217-062001

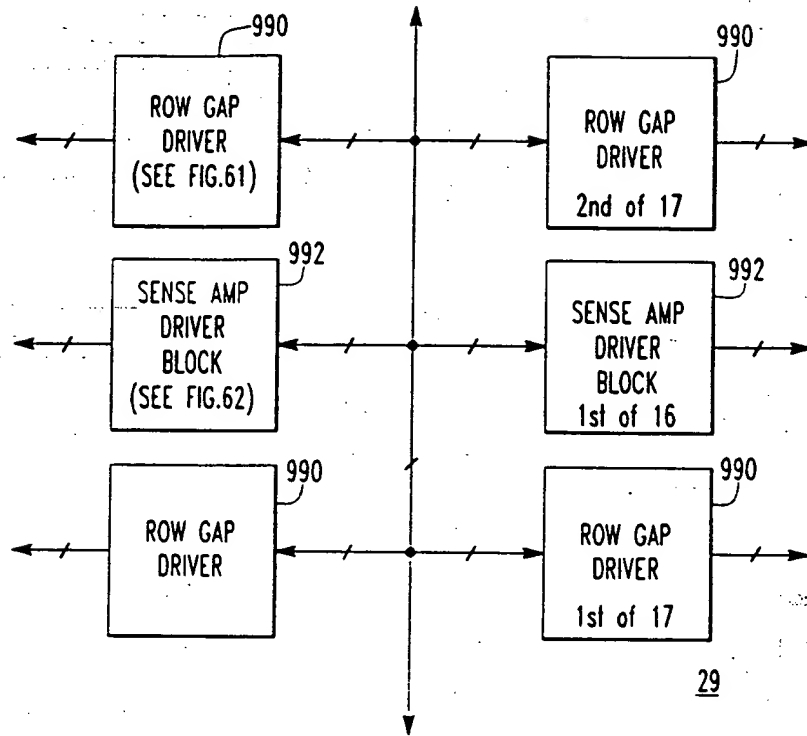


FIG. 60

100290: 1258860

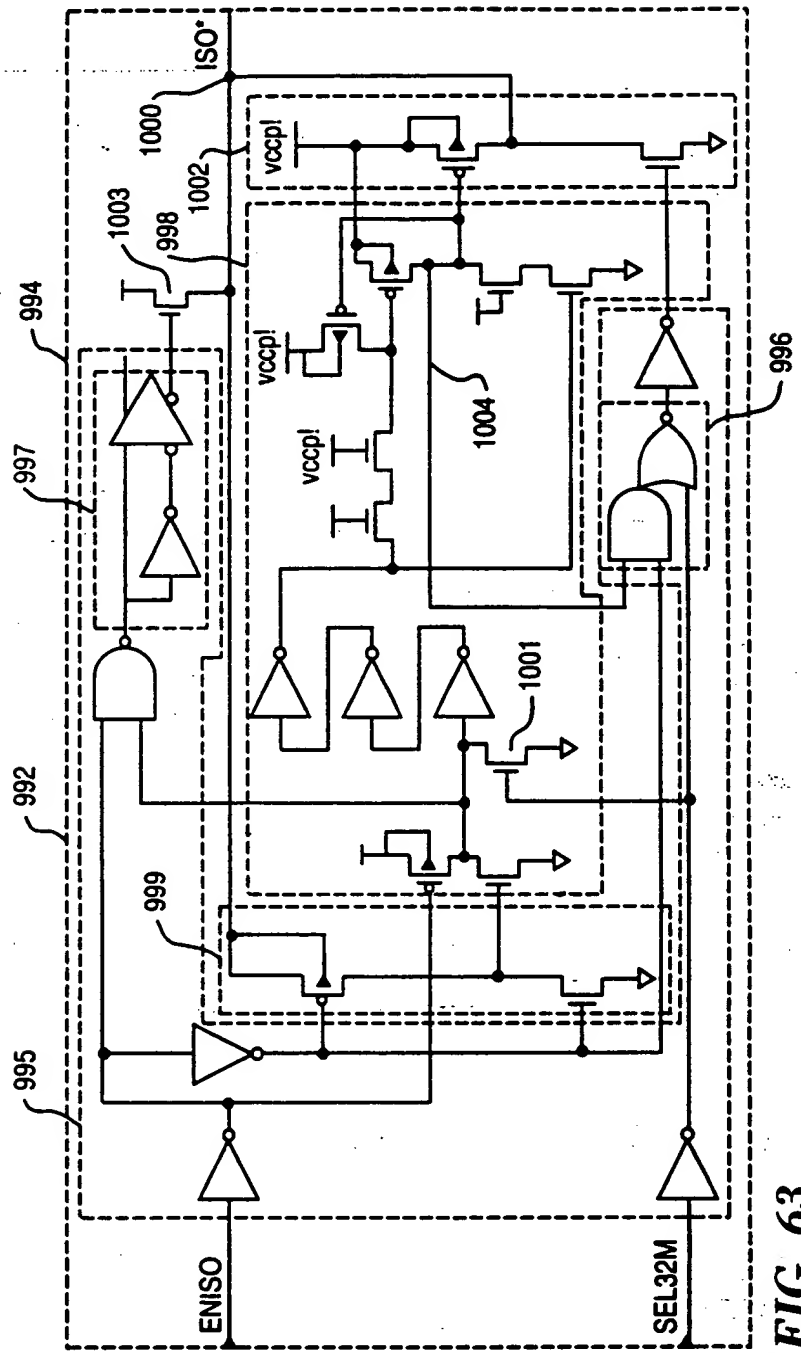


FIG. 63

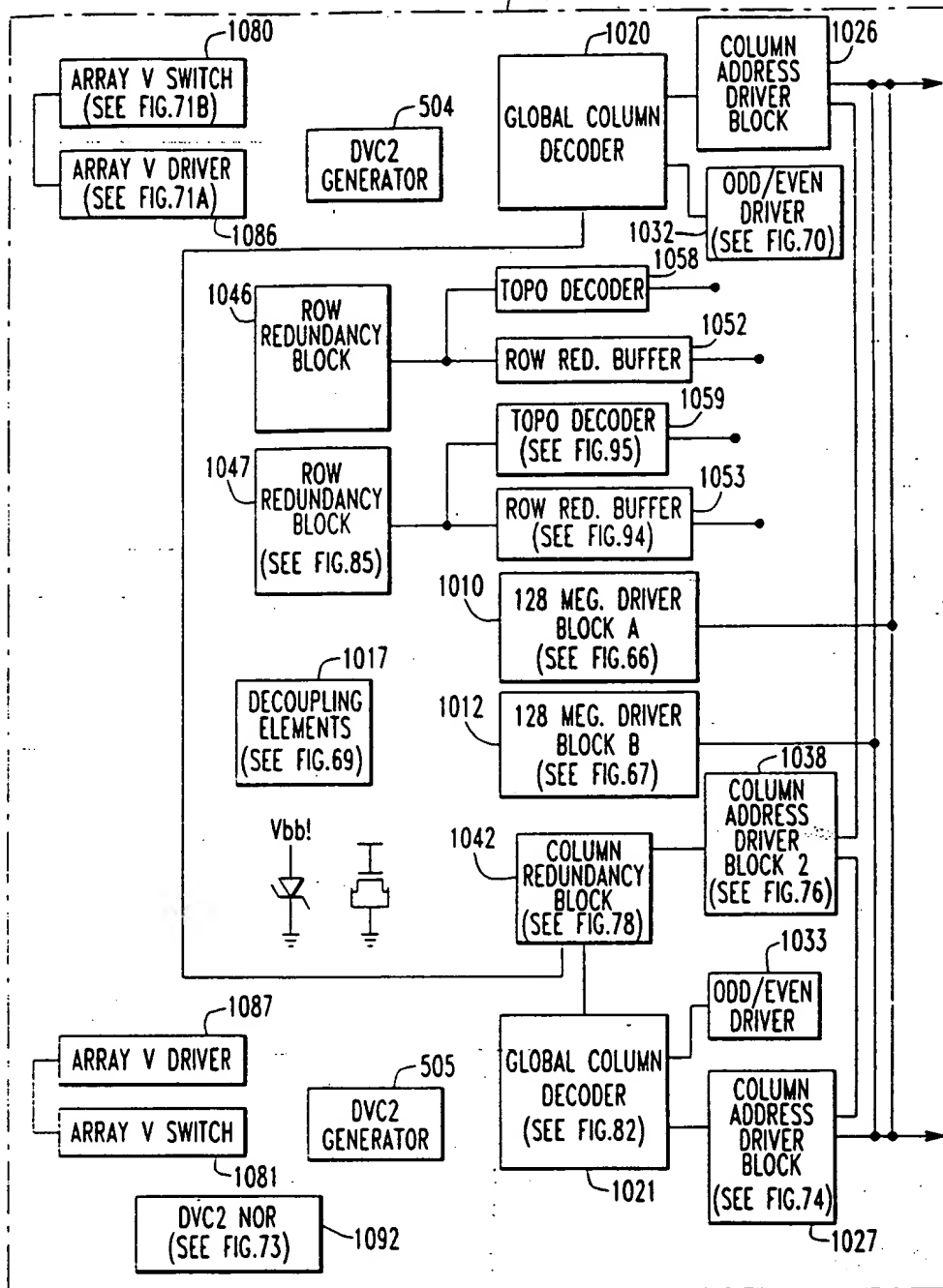


FIG. 64A

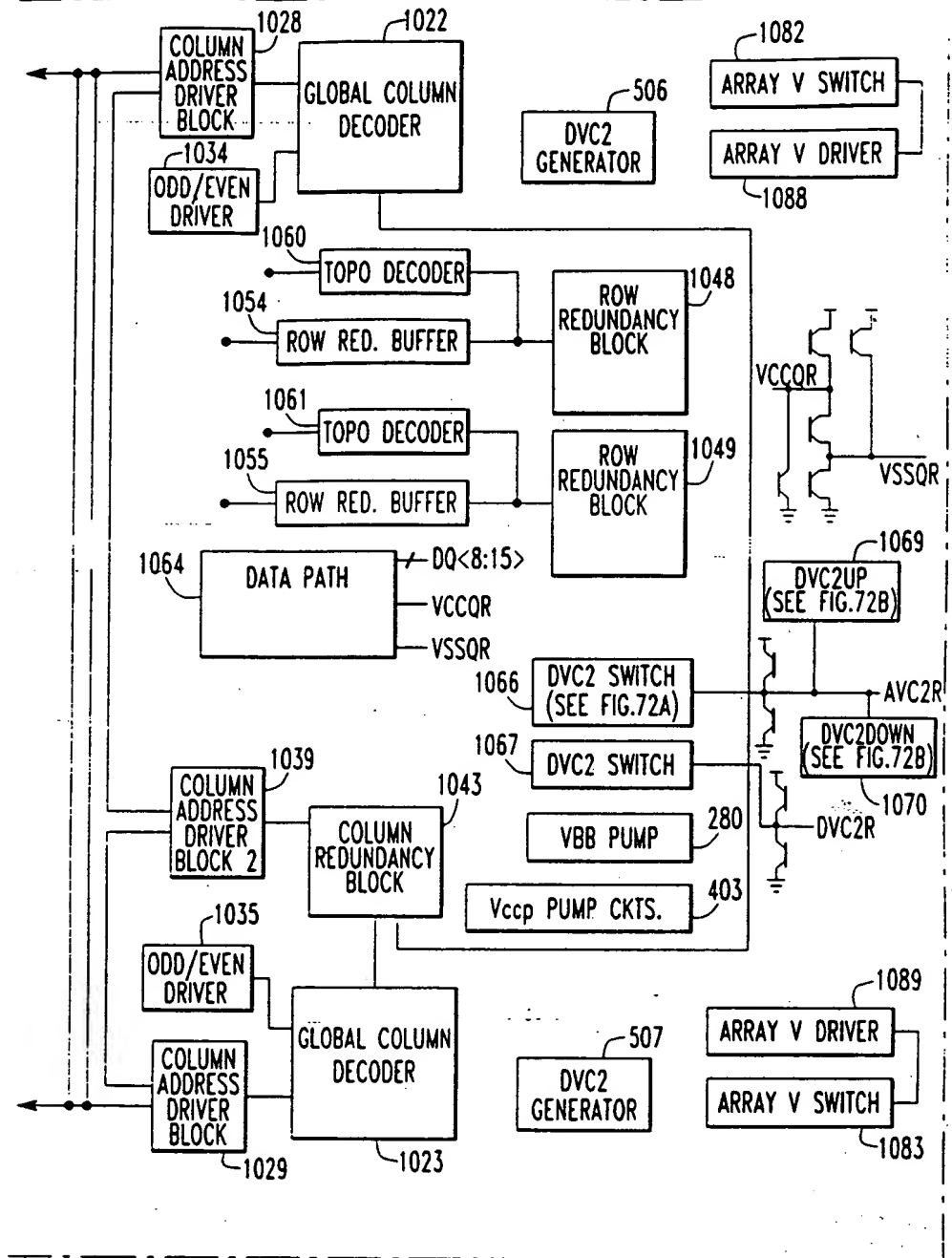


FIG. 64B

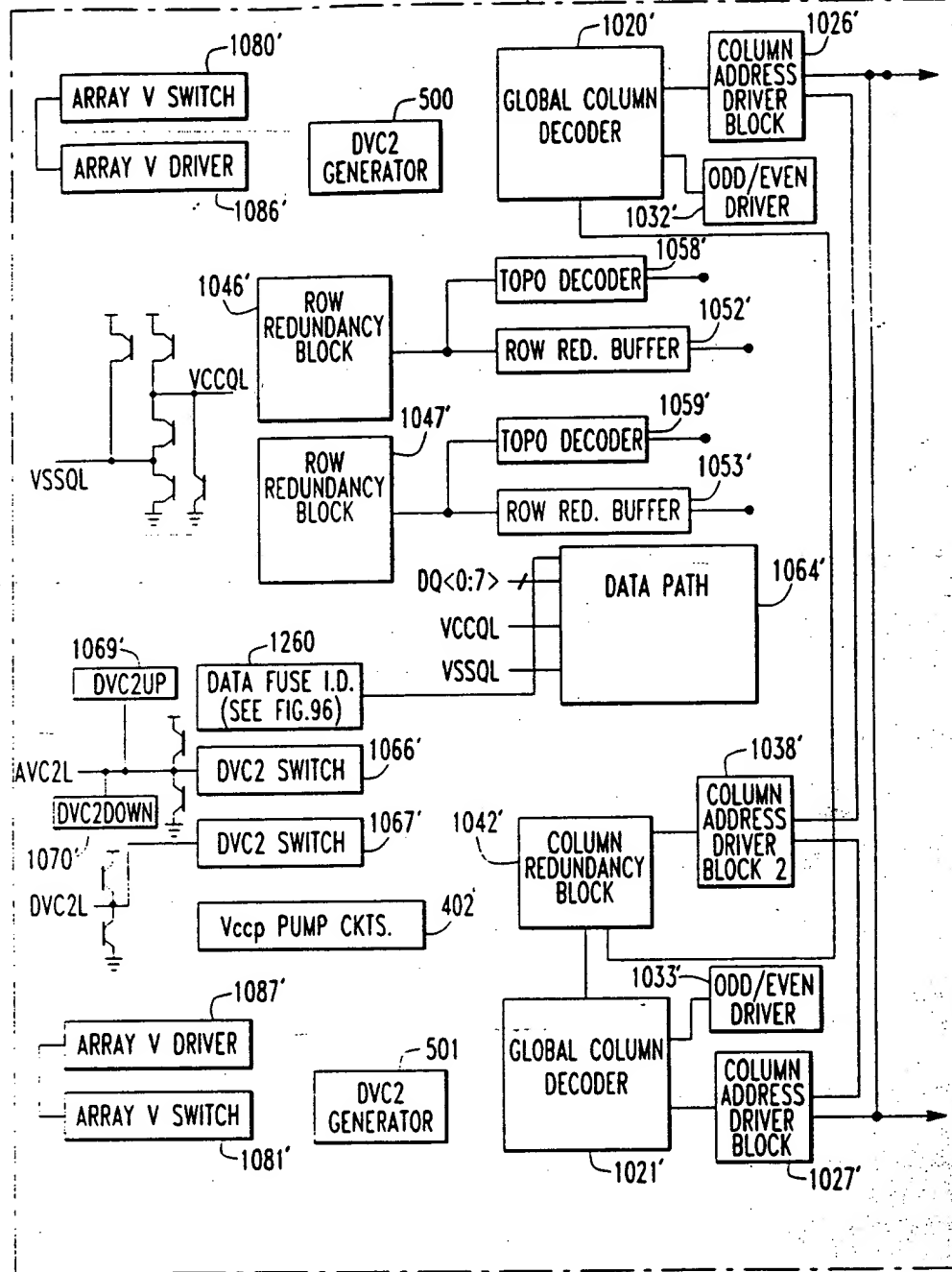


FIG. 65A

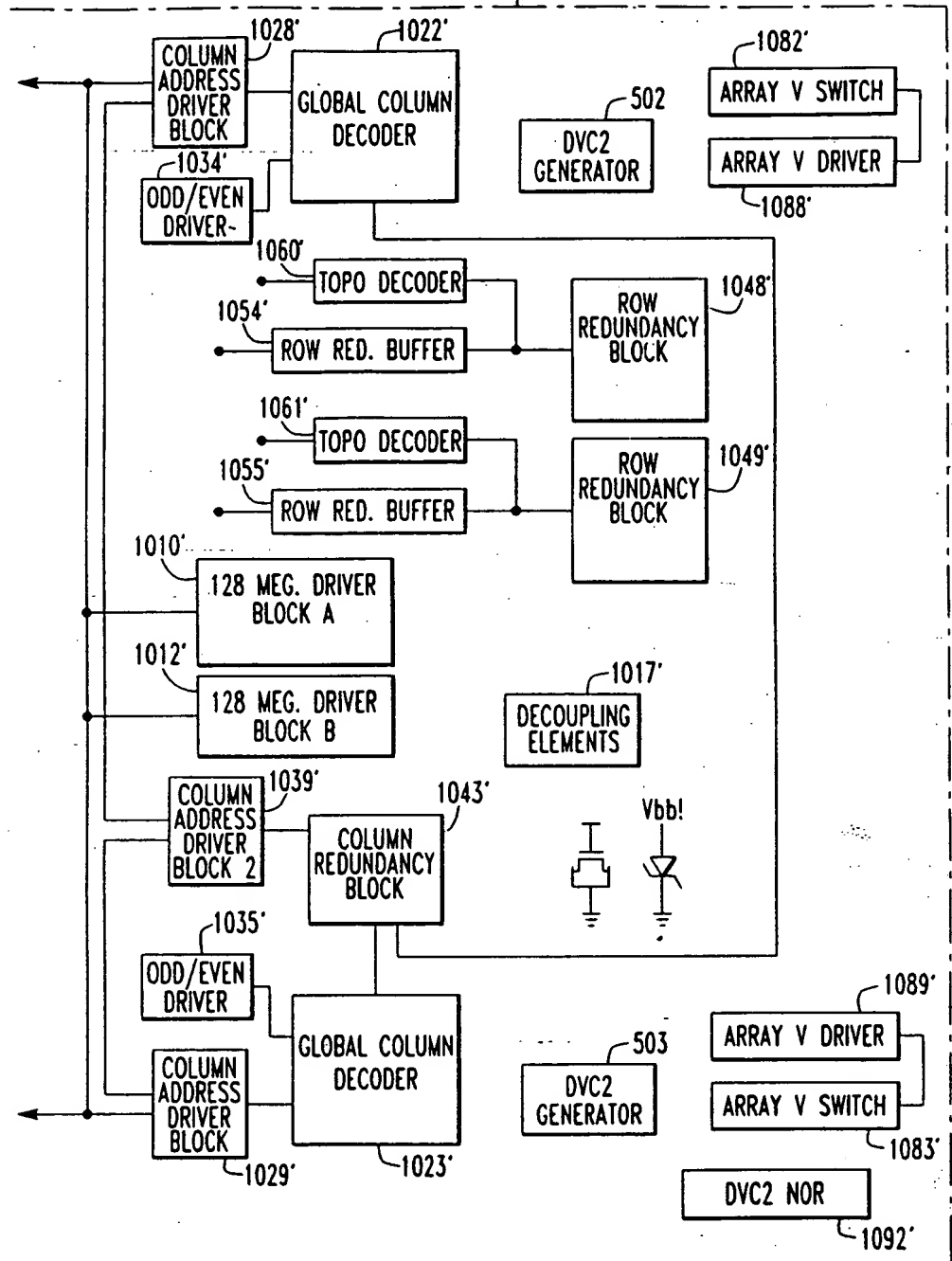


FIG. 65B

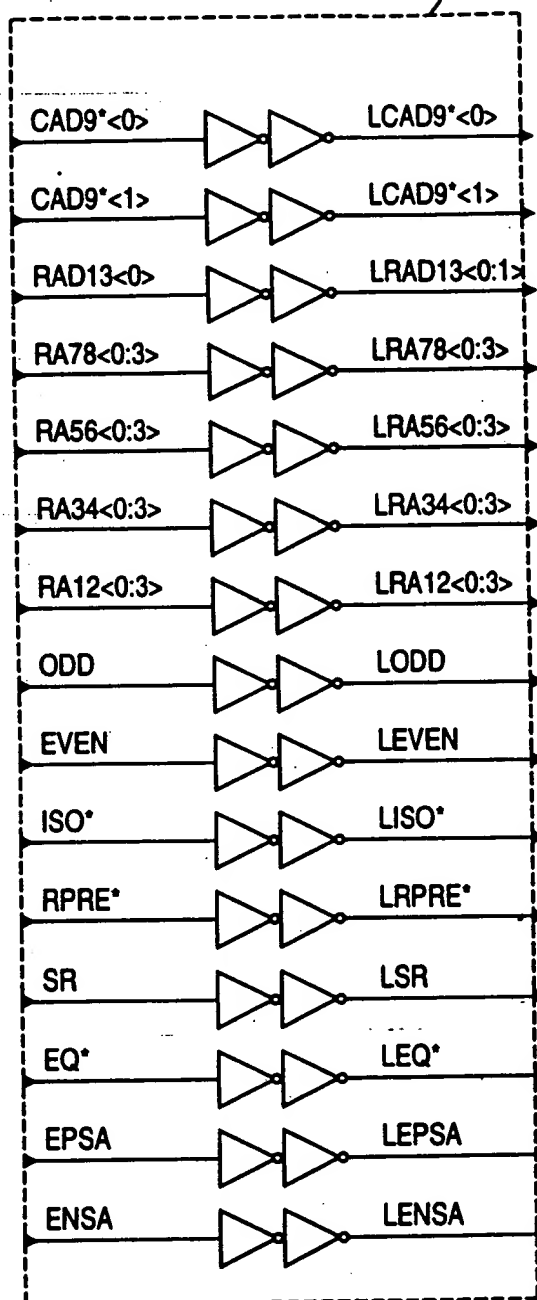


FIG. 66

10240-1258860

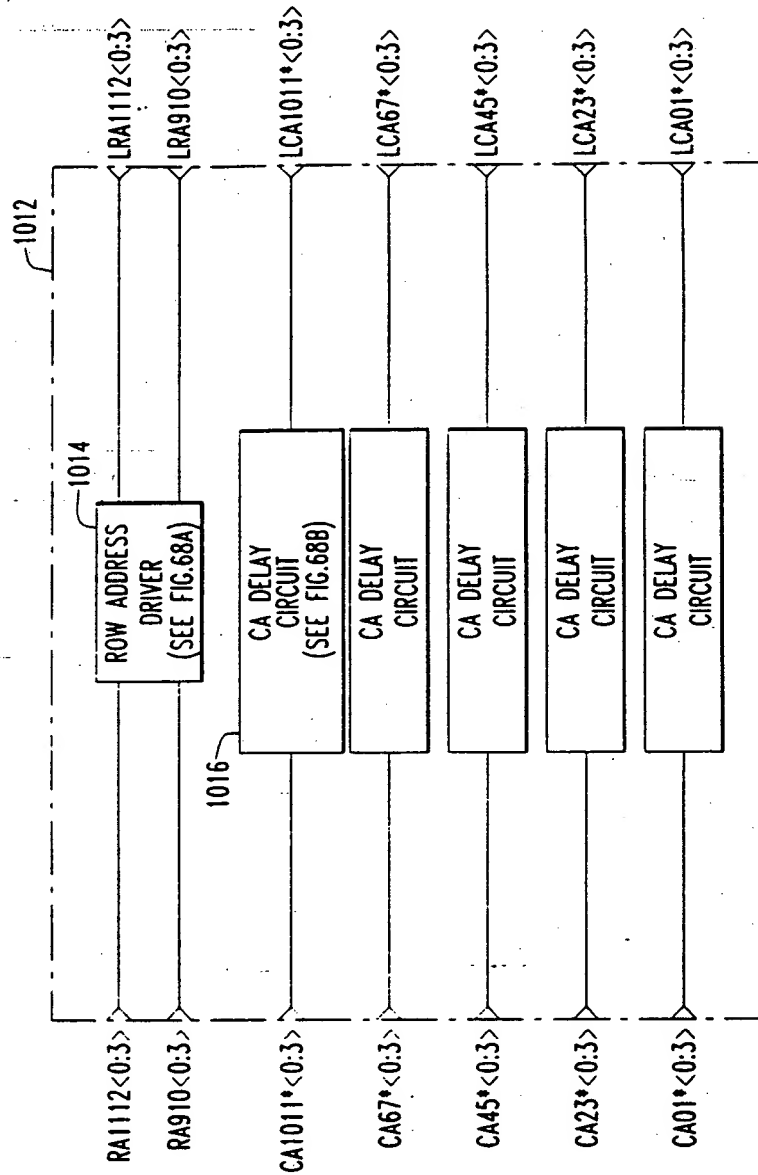


FIG. 67

000290 1258860

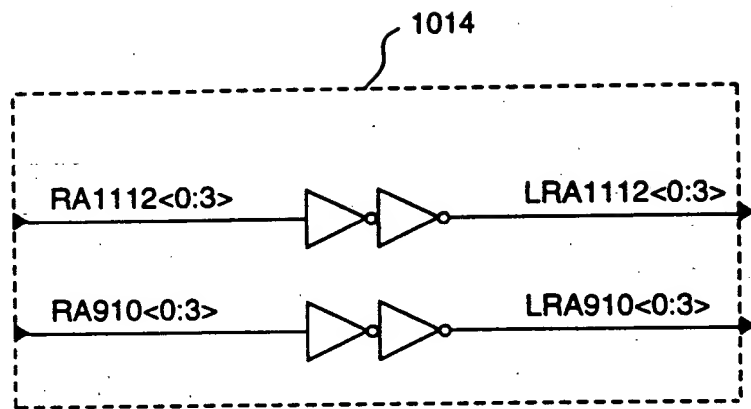


FIG. 68A

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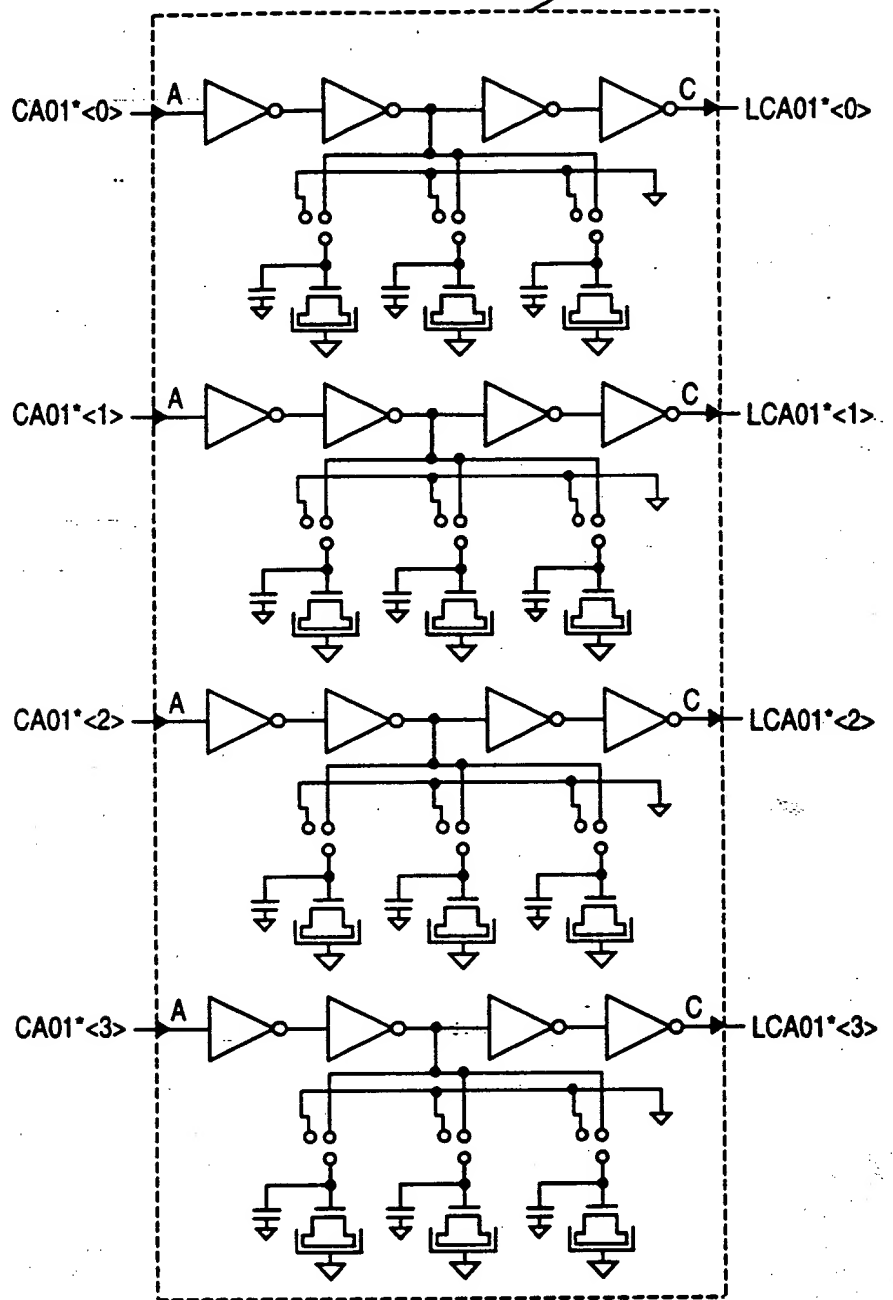


FIG. 68B

0029071258860

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100290/1258860

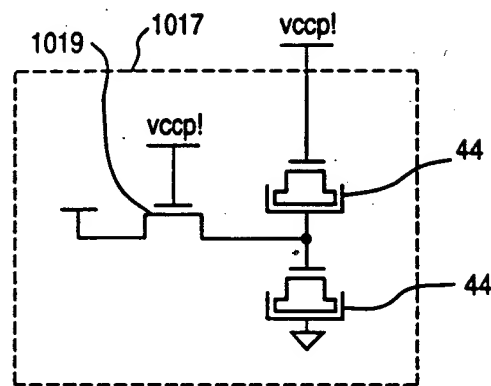


FIG. 69

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100290-7258860

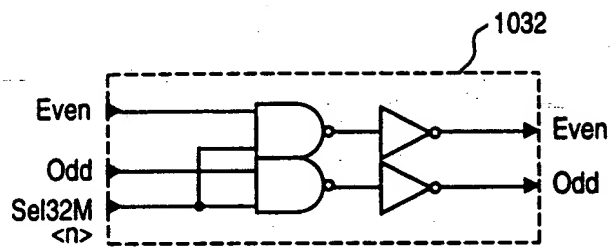


FIG. 70

100290/1258860

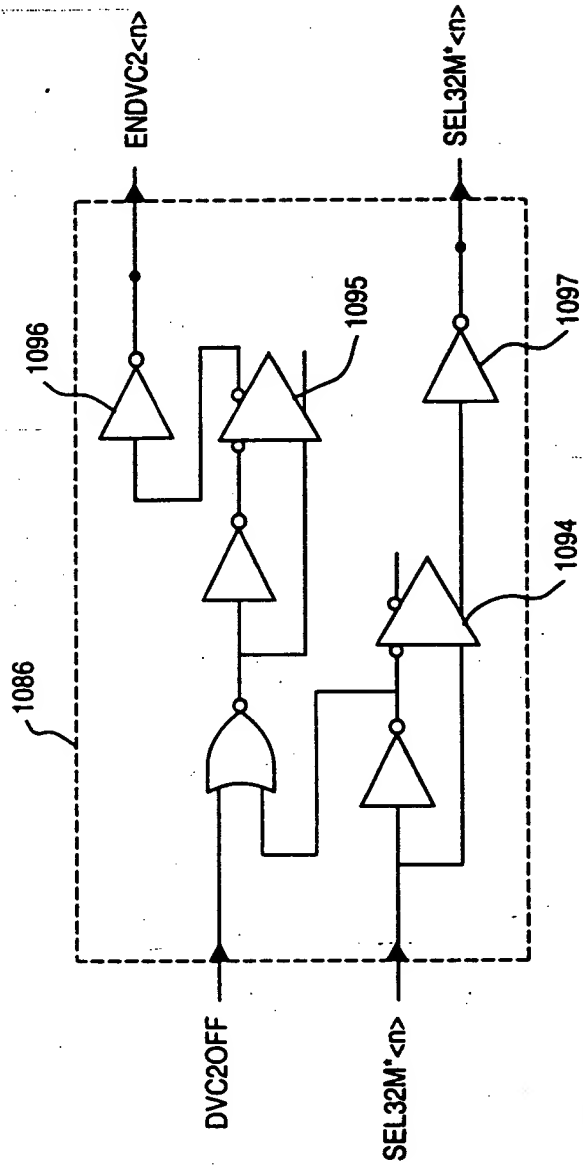


FIG. 71A

100280-1258860

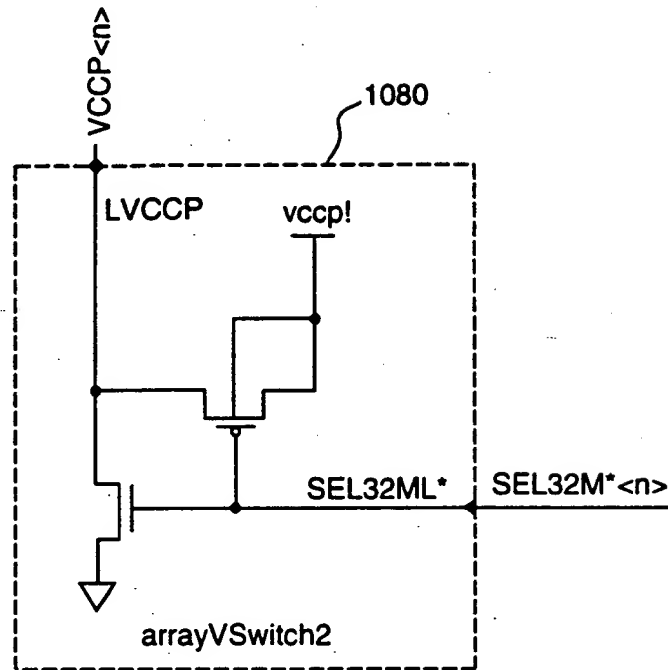


FIG. 71B

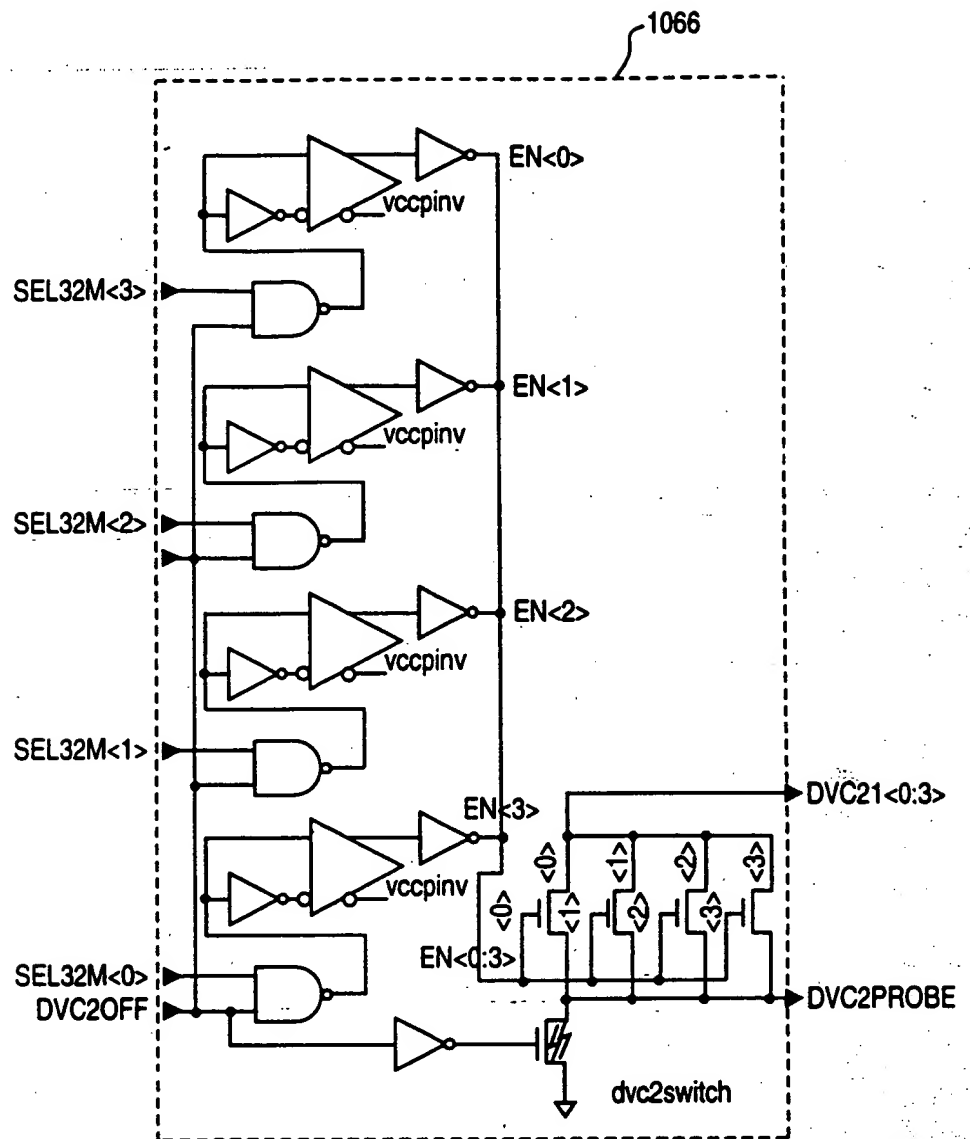


FIG. 72A

100290-1258860

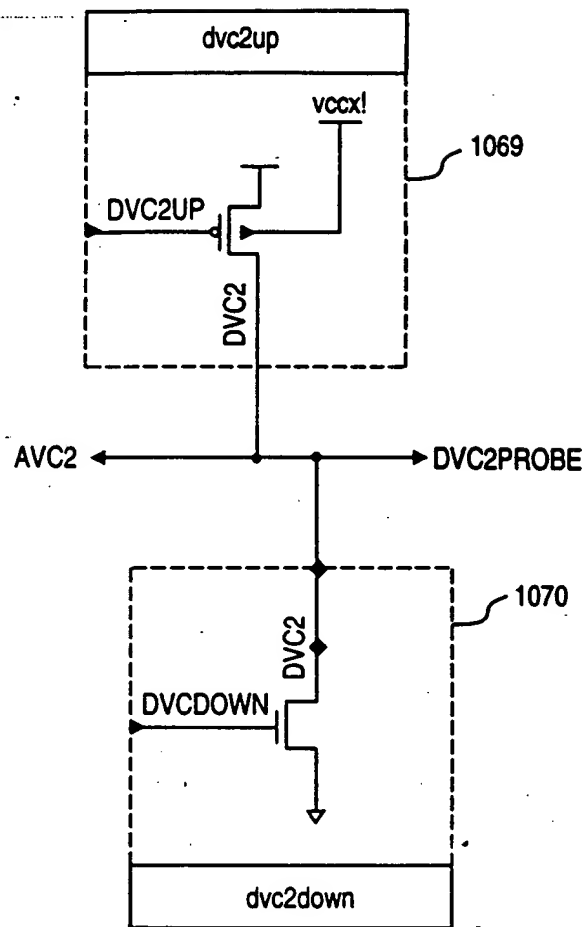


FIG. 72B

100296-7258860

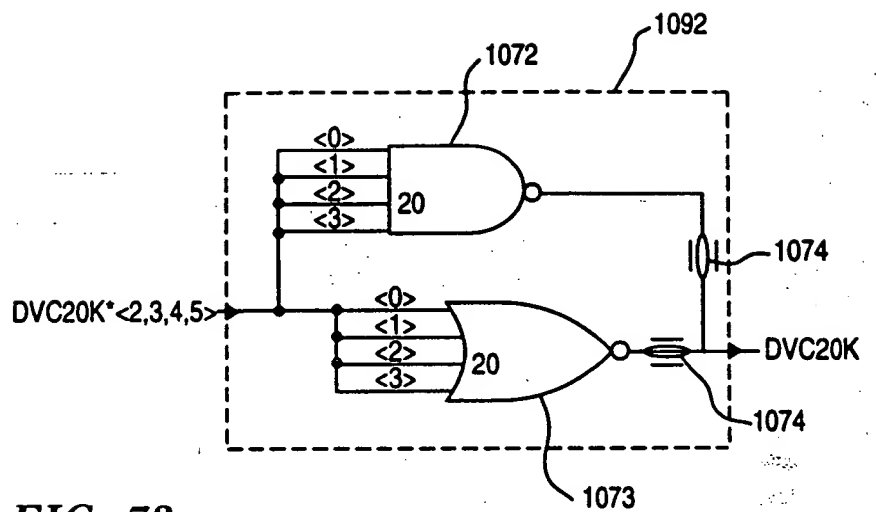


FIG. 73

100290/1258860

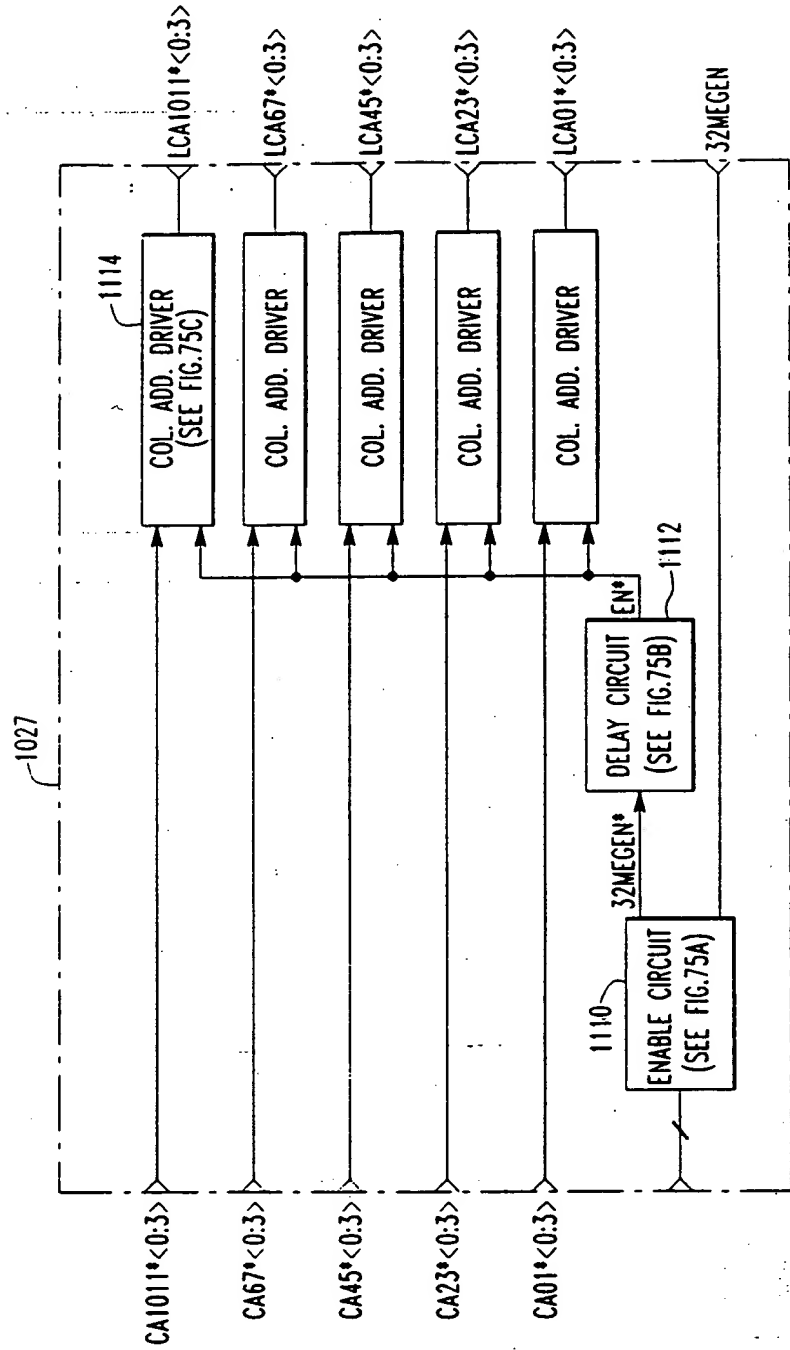


FIG. 74

100290-1258860

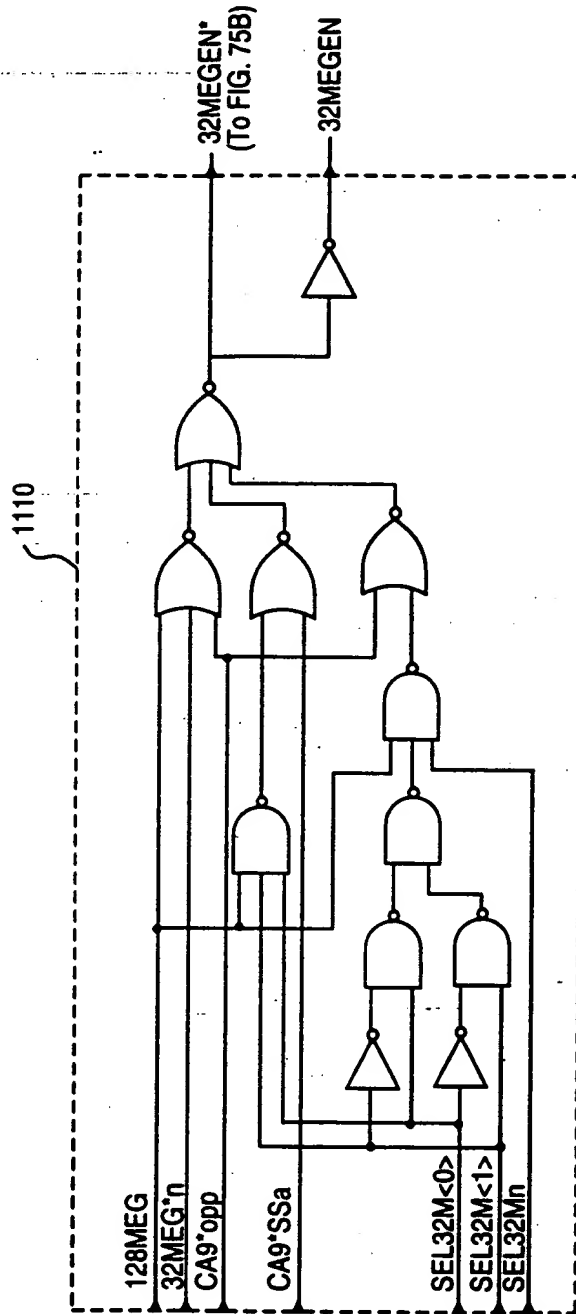


FIG. 75A

111290/1258860

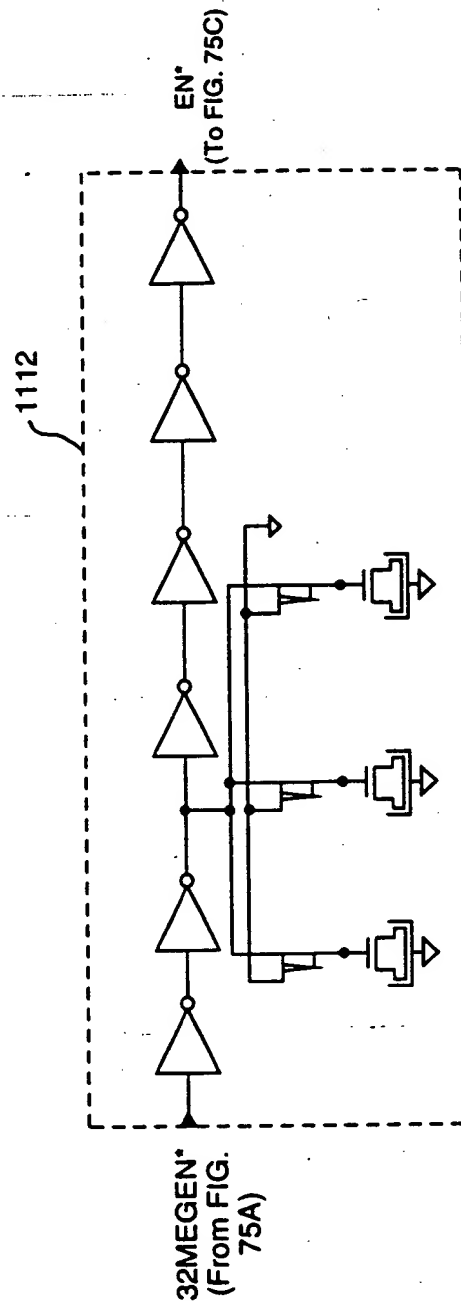


FIG. 75B

100290-1258860

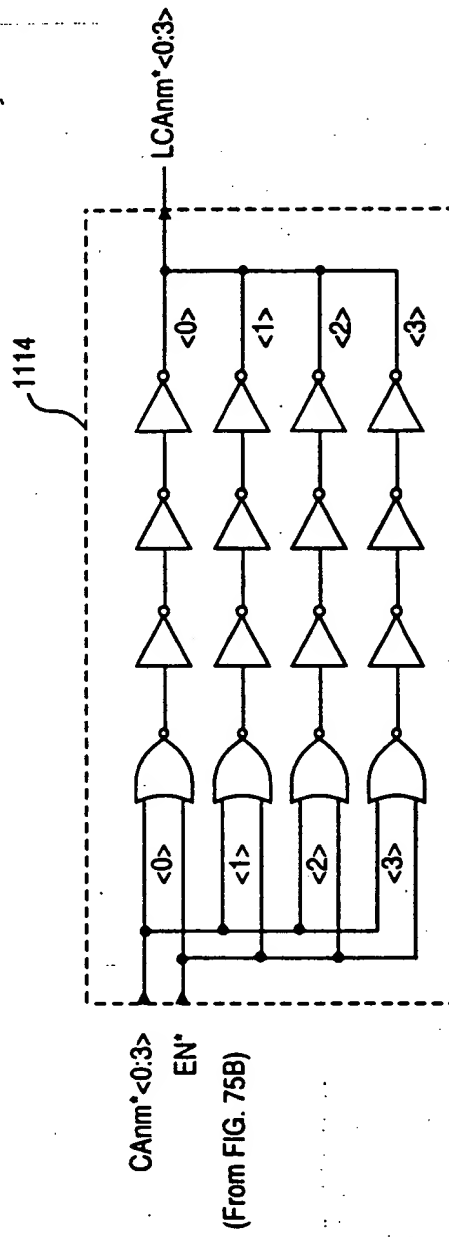


FIG. 75C

0985317-96001
11 100290-71258860

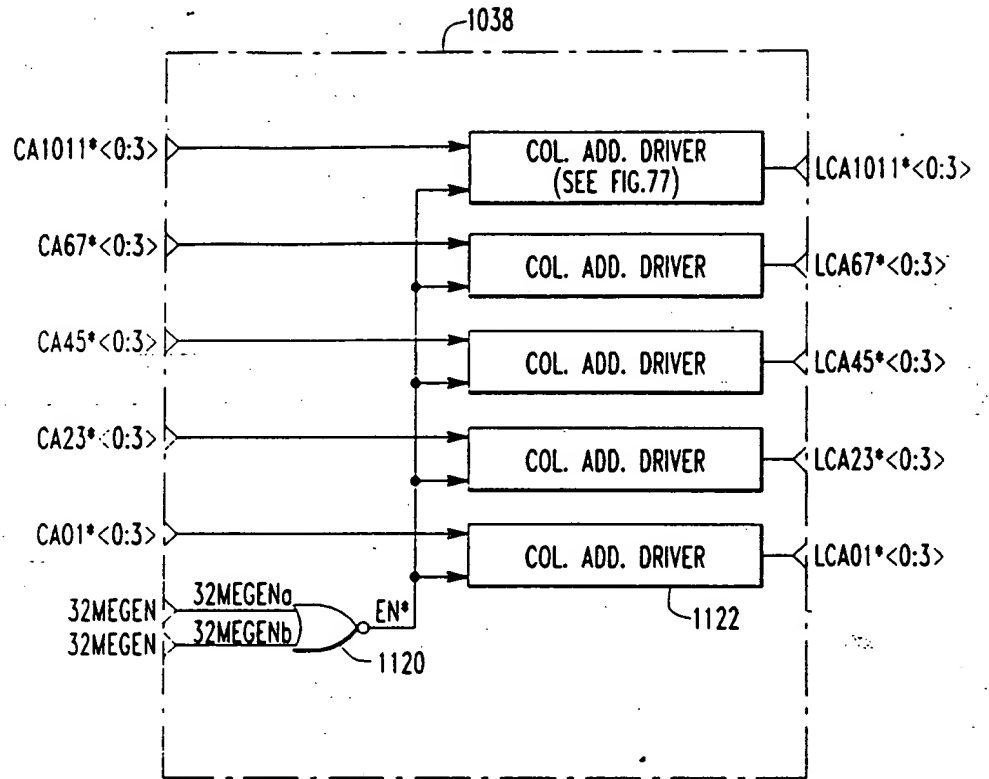


FIG. 76

110290/1258860

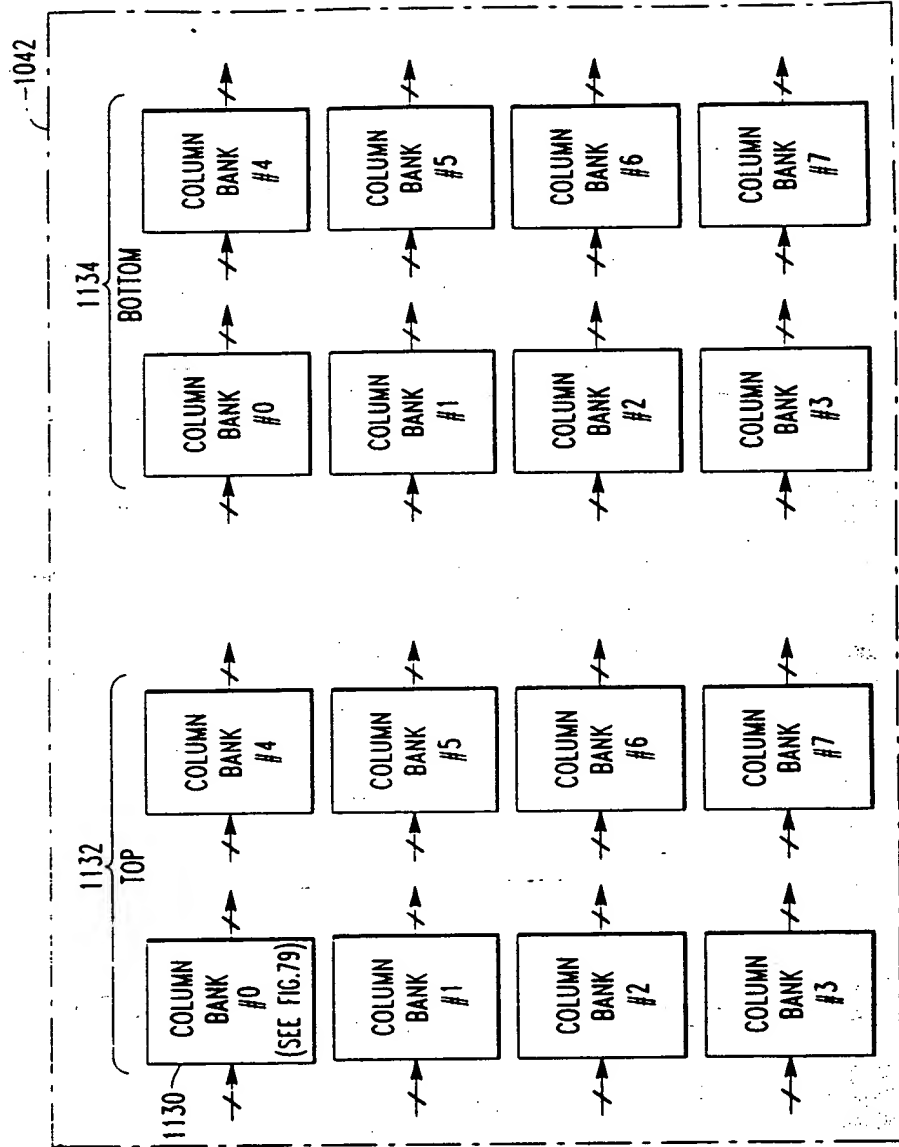
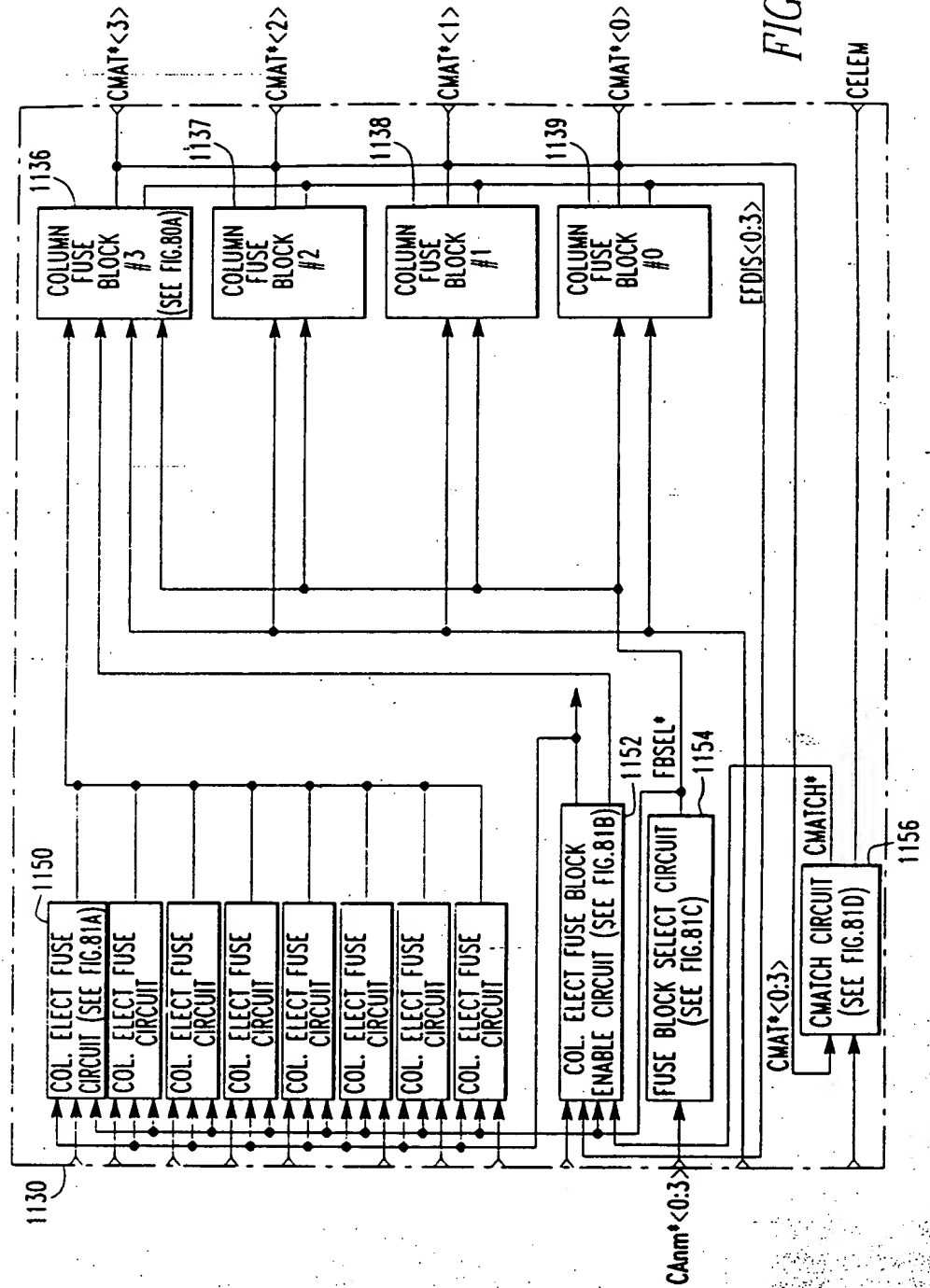


FIG. 78

11
100290-1258860



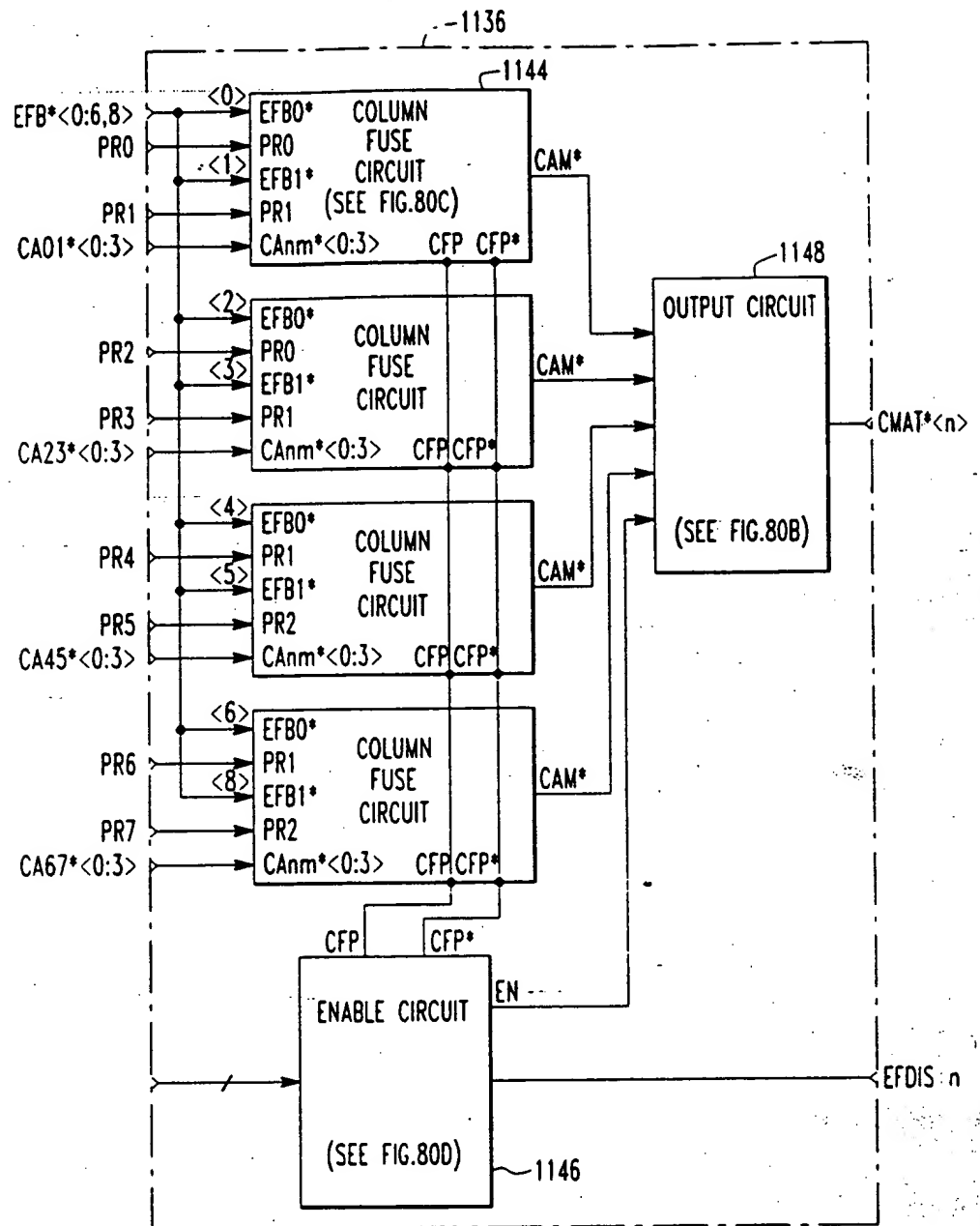


FIG. 80A

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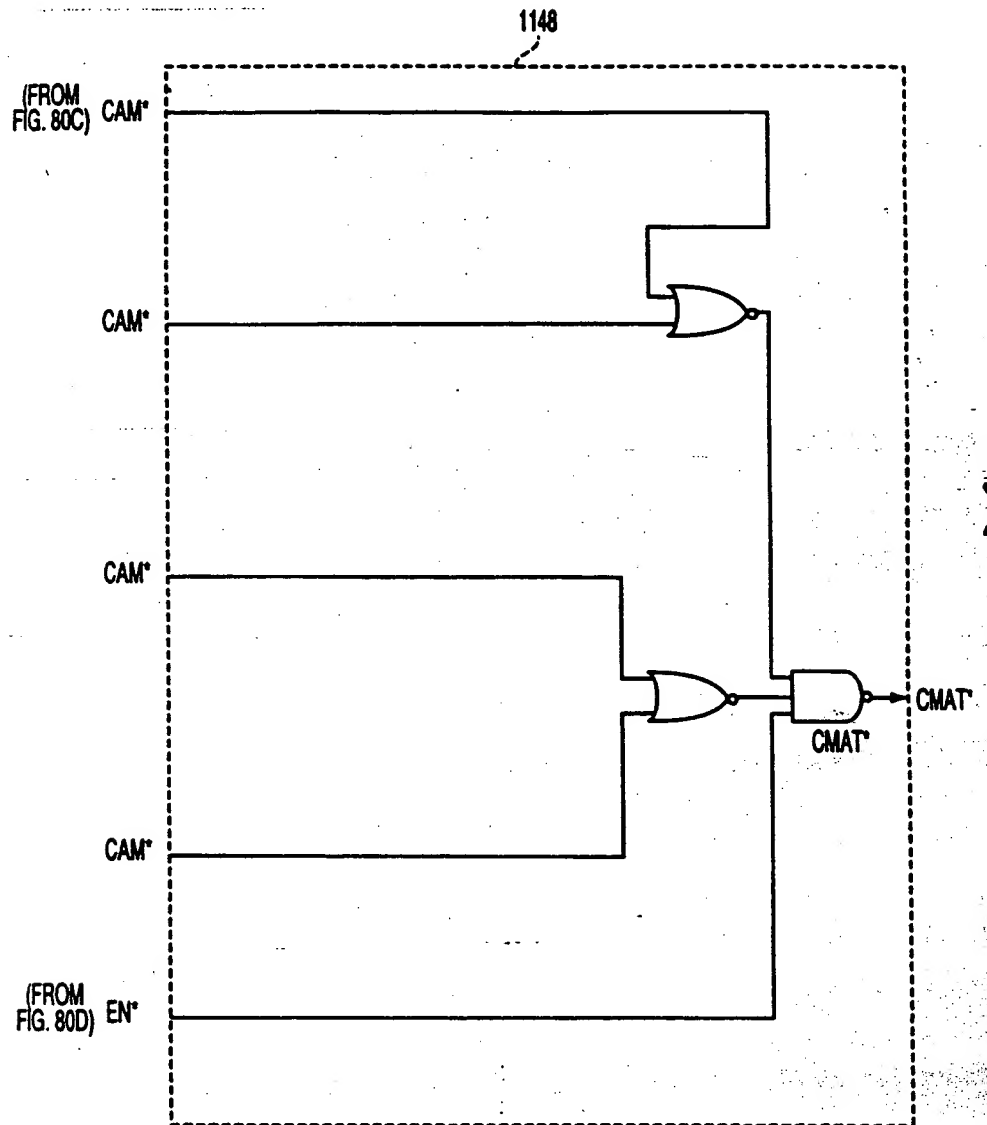


FIG. 80B

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100290 1258860

1144

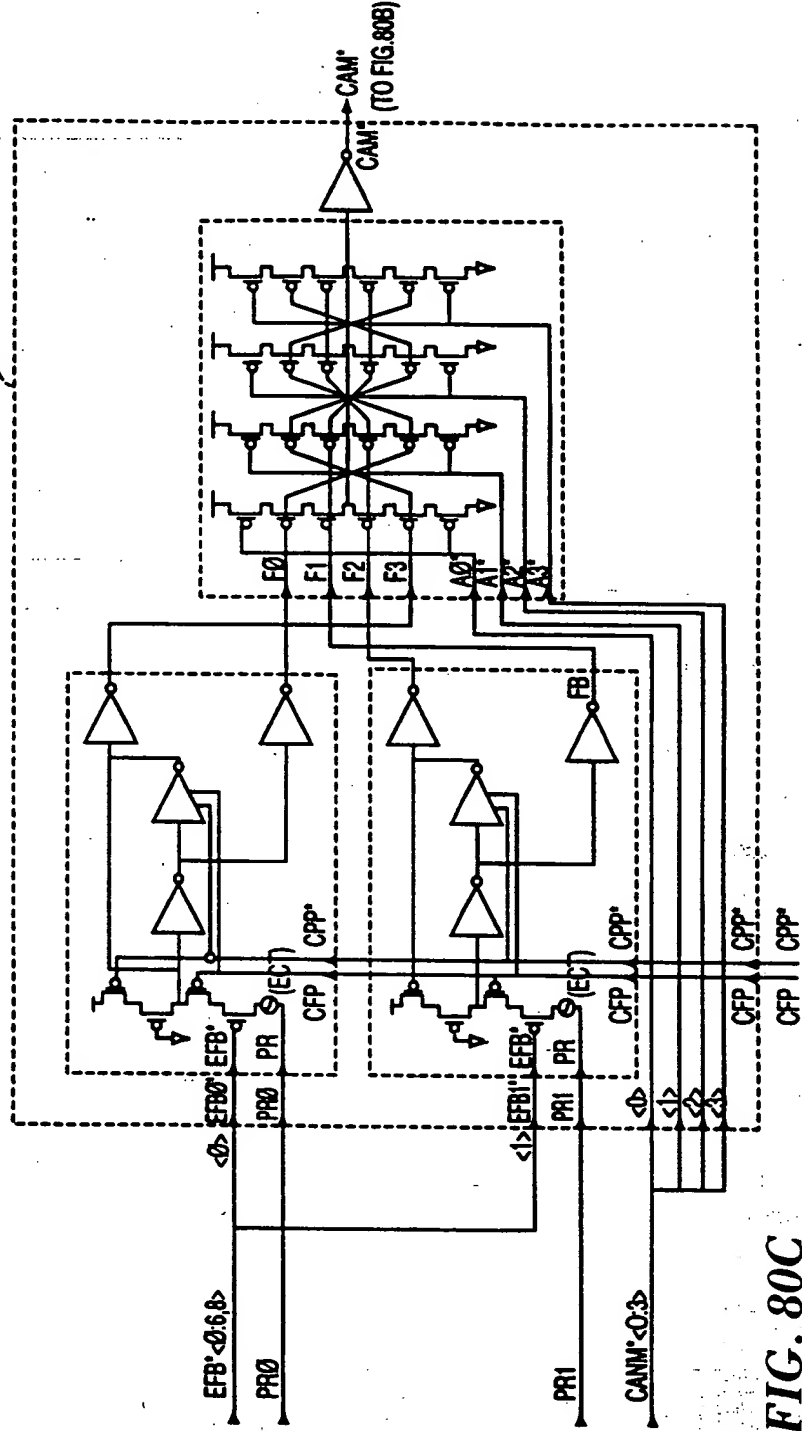


FIG. 80C

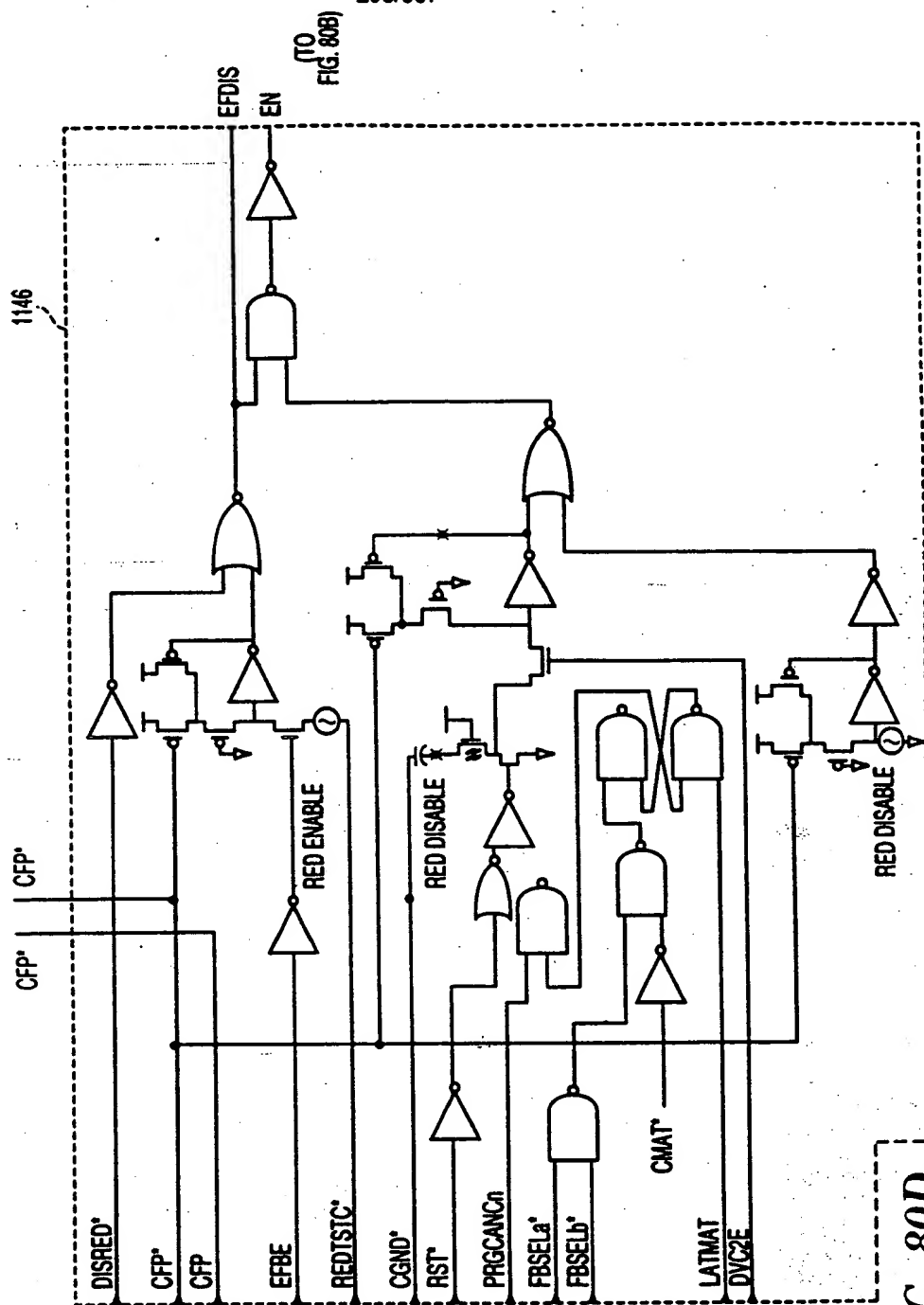


FIG. 80D

FIG. 80D

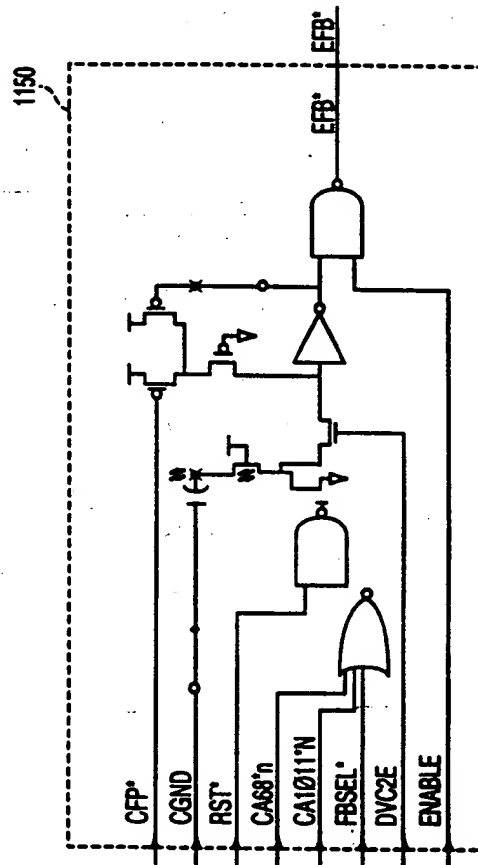
[illegible]

FIG. 81A

100290-71258860

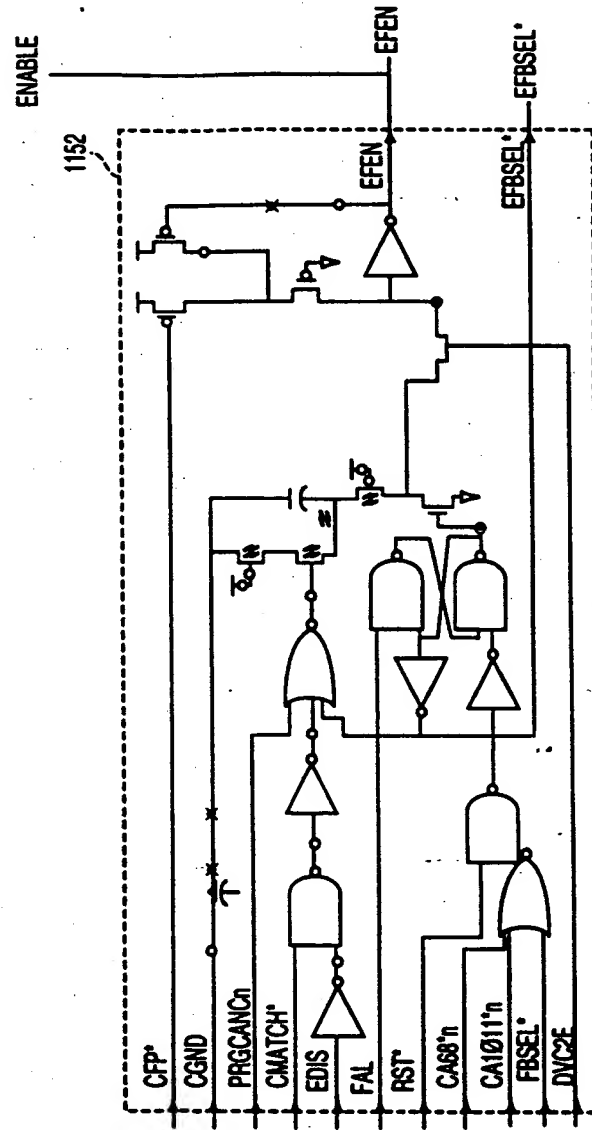


FIG. 81B

11
T00290-1258860

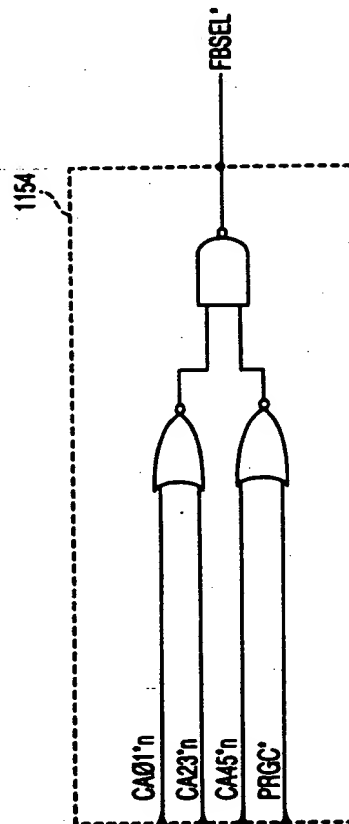


FIG. 81C

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100290-11258860

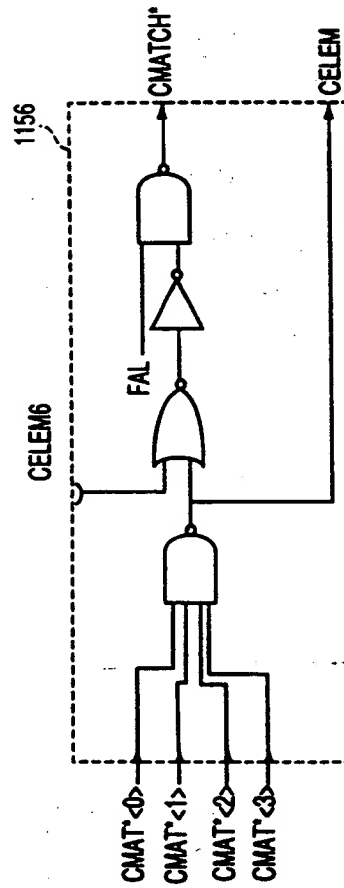


FIG. 81D

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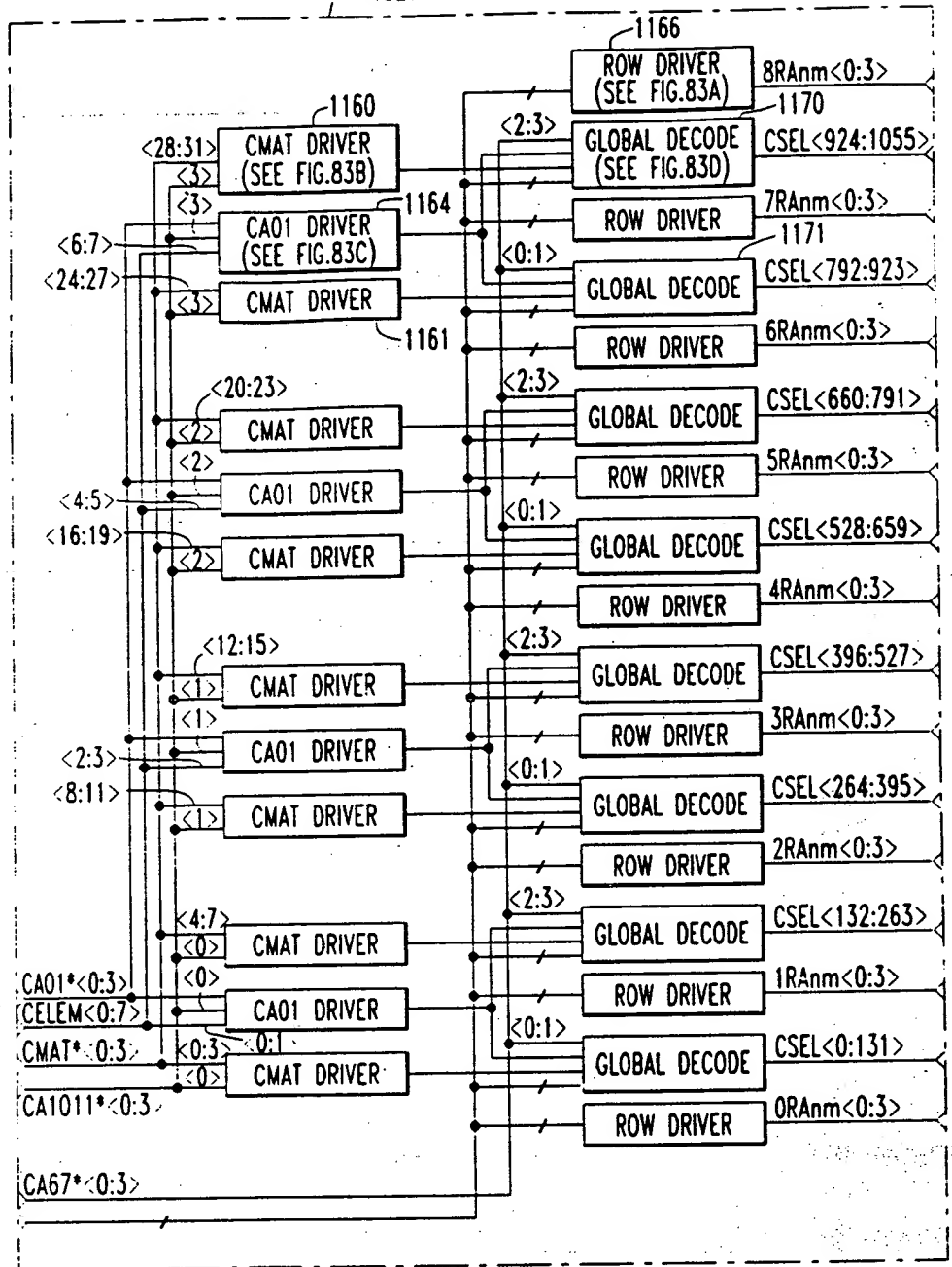


FIG. 82

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11
10029071258860

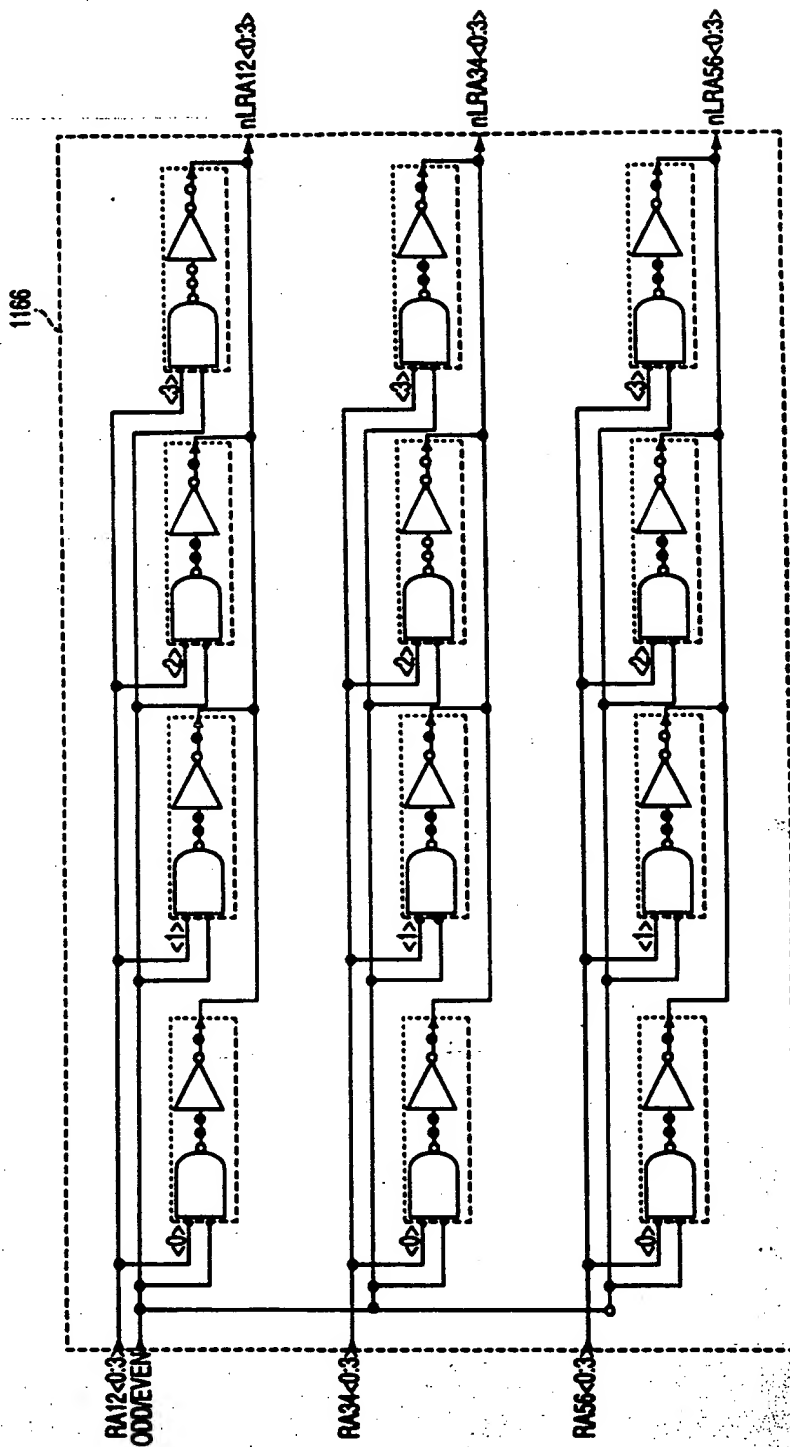


FIG. 83A

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11
100290* / 1258860

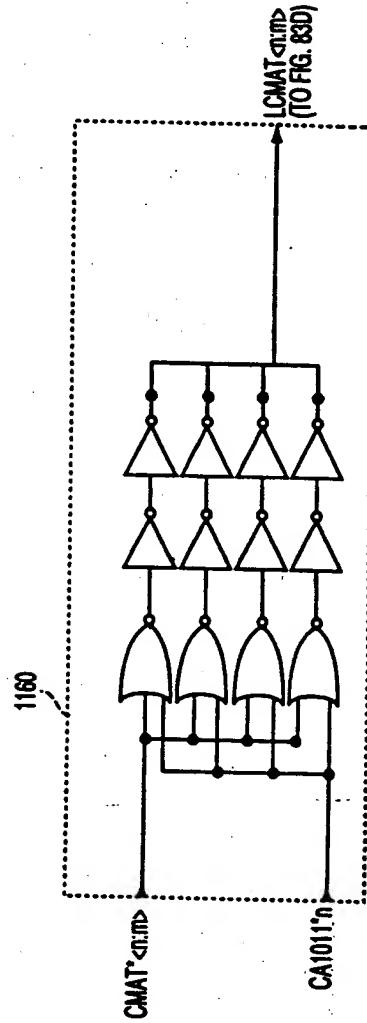


FIG. 83B

1100290-7258860

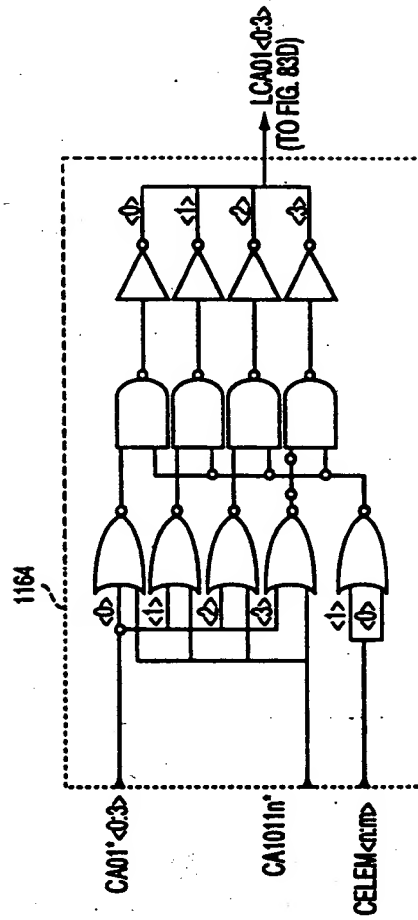
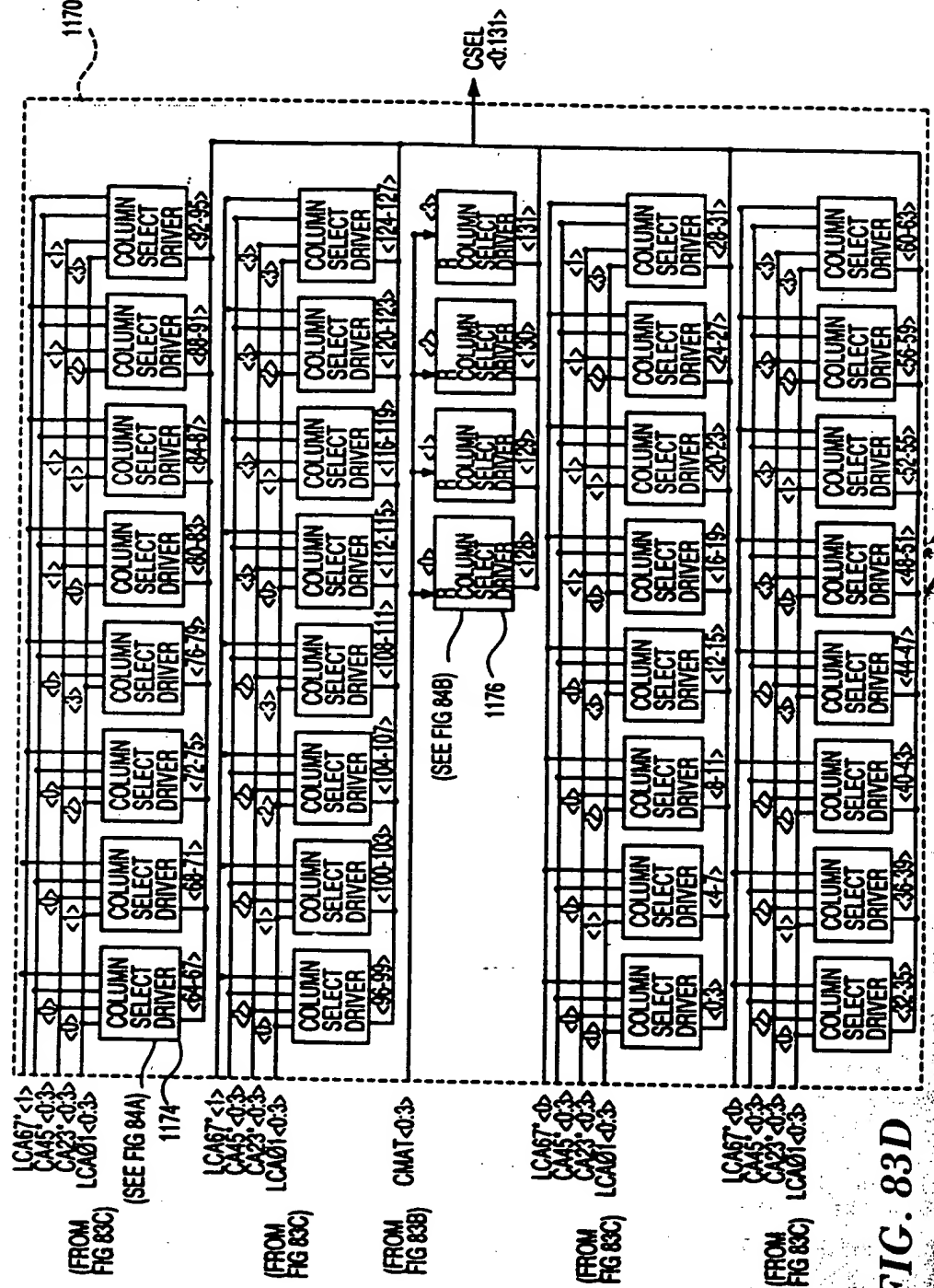


FIG. 83C

100290-71258860



1174
100290 1258860

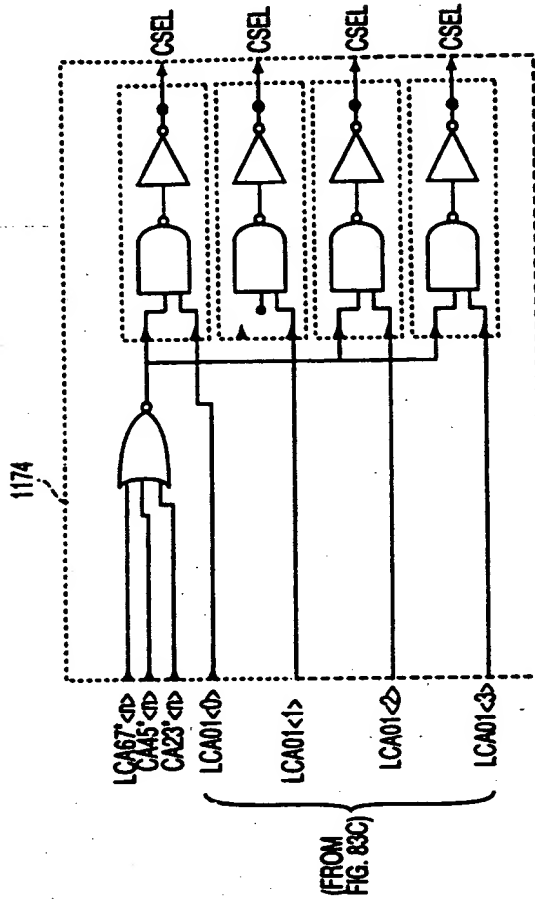


FIG. 84A

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09885217/062001
100290/1258860

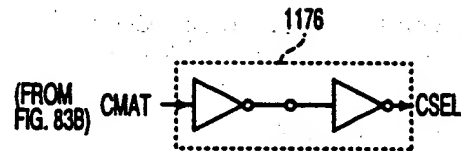


FIG. 84B

000290-1258860

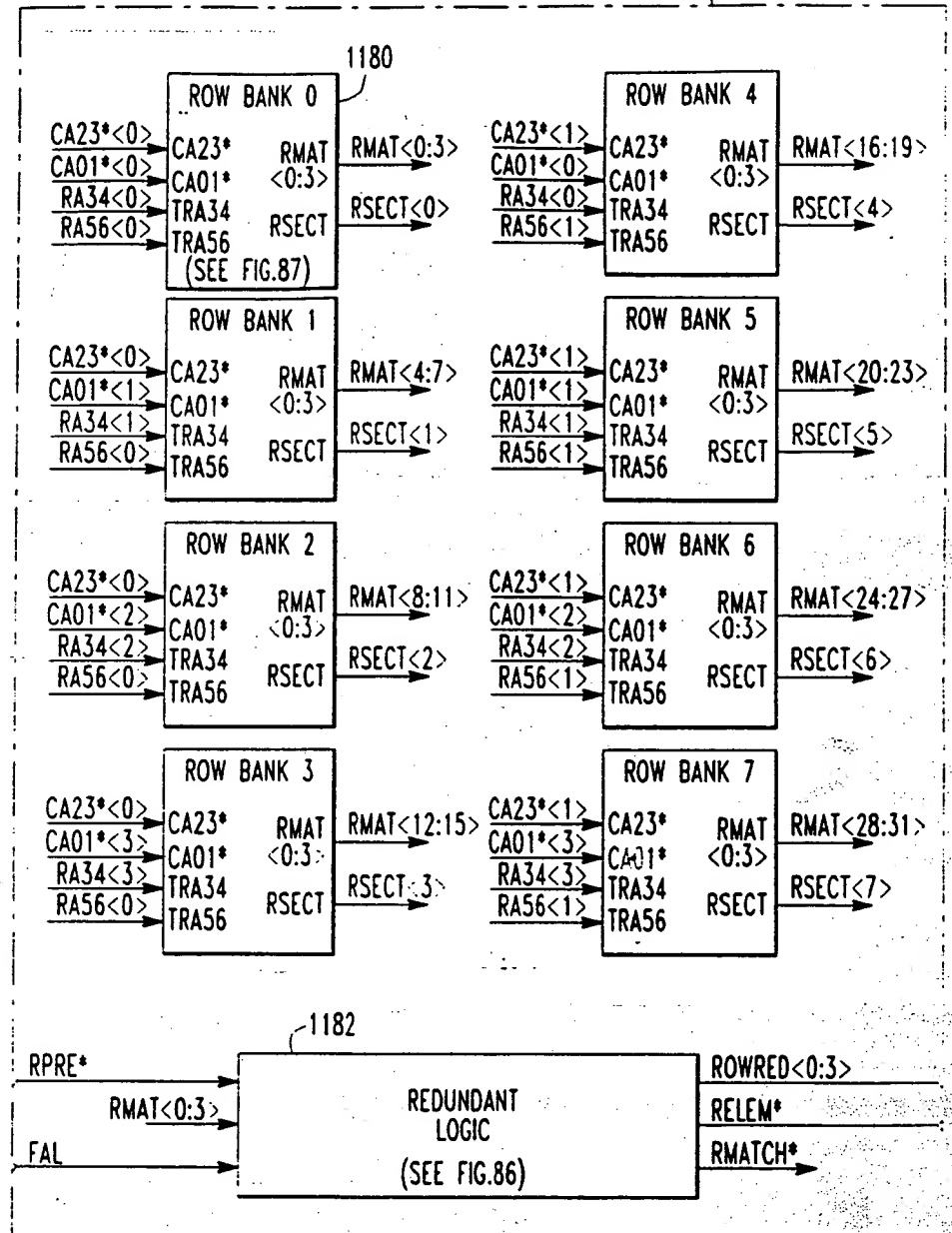


FIG. 85

1002901/1258860

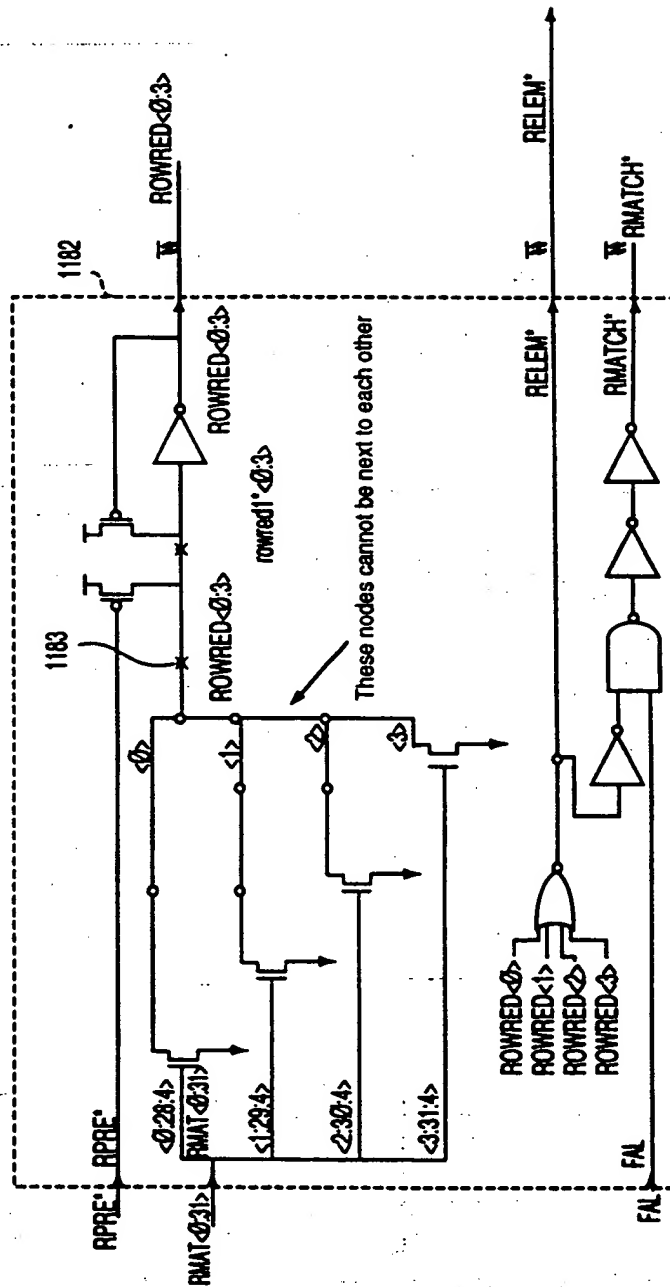


FIG. 86

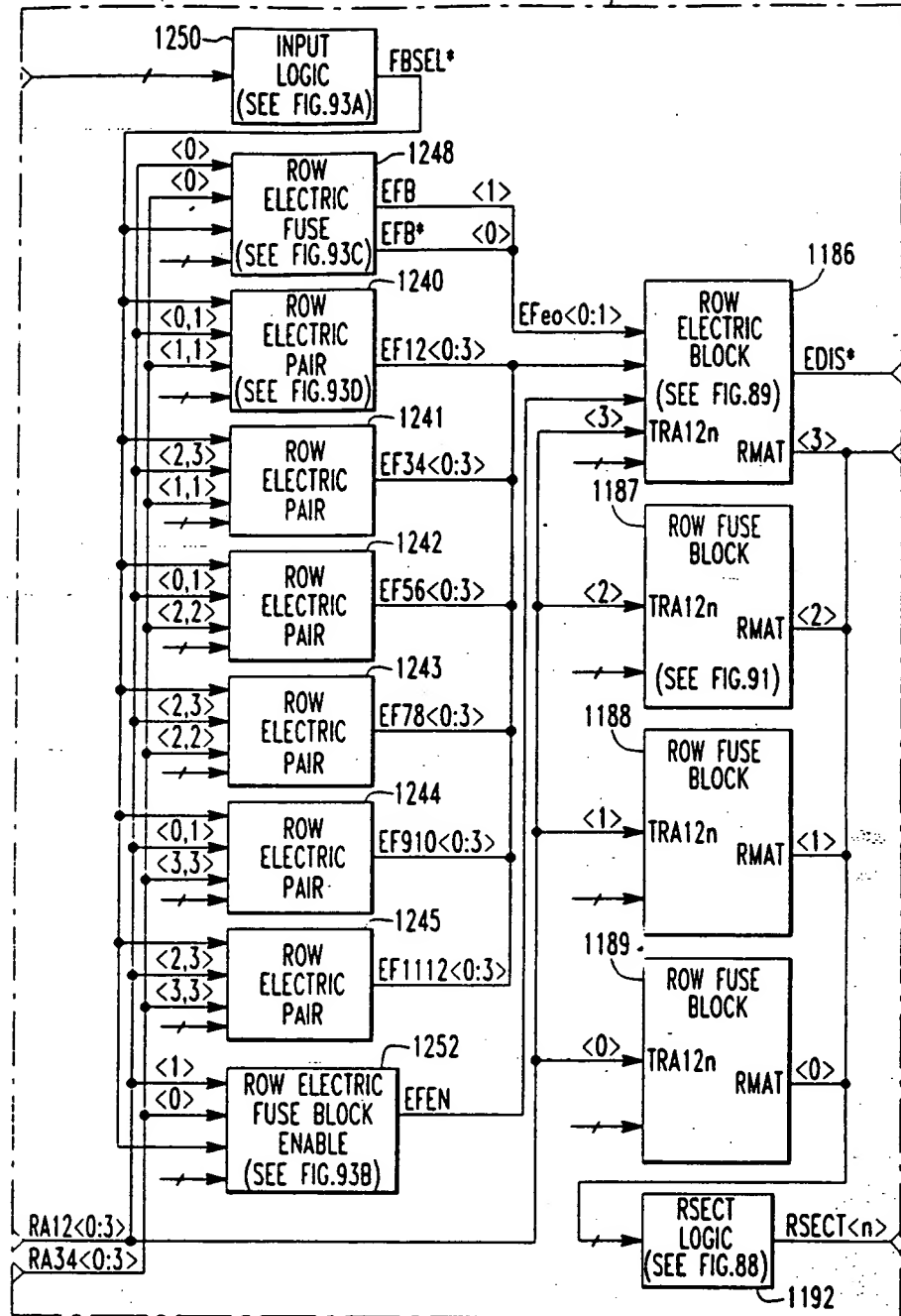


FIG. 87

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09885217-062001

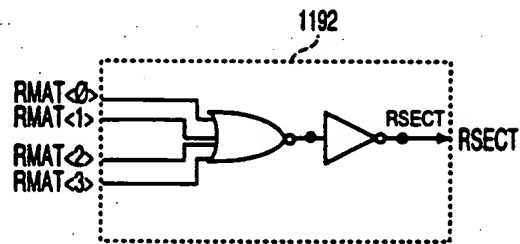


FIG. 88

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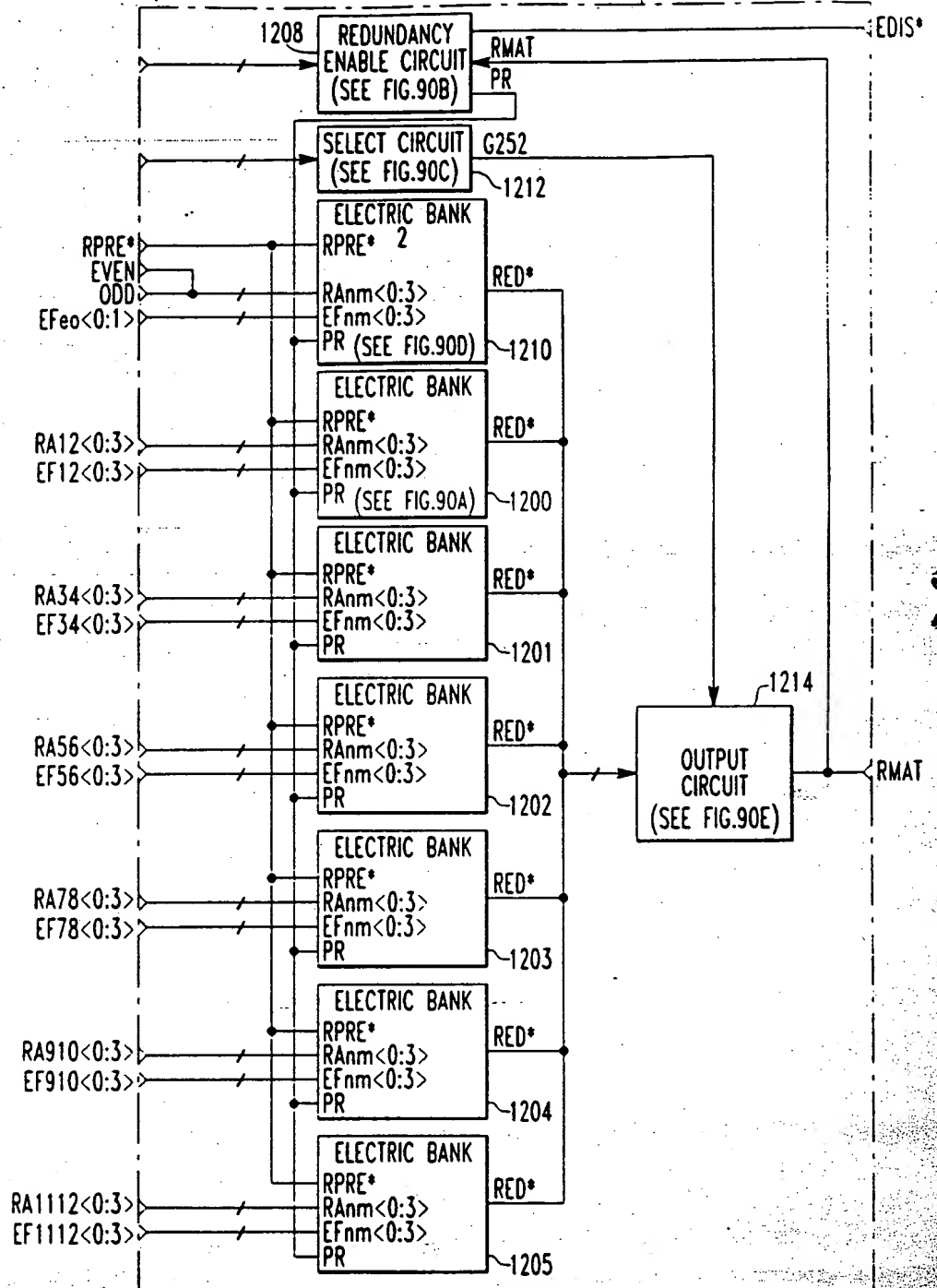


FIG. 89

09885217.062001

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100290-11258860

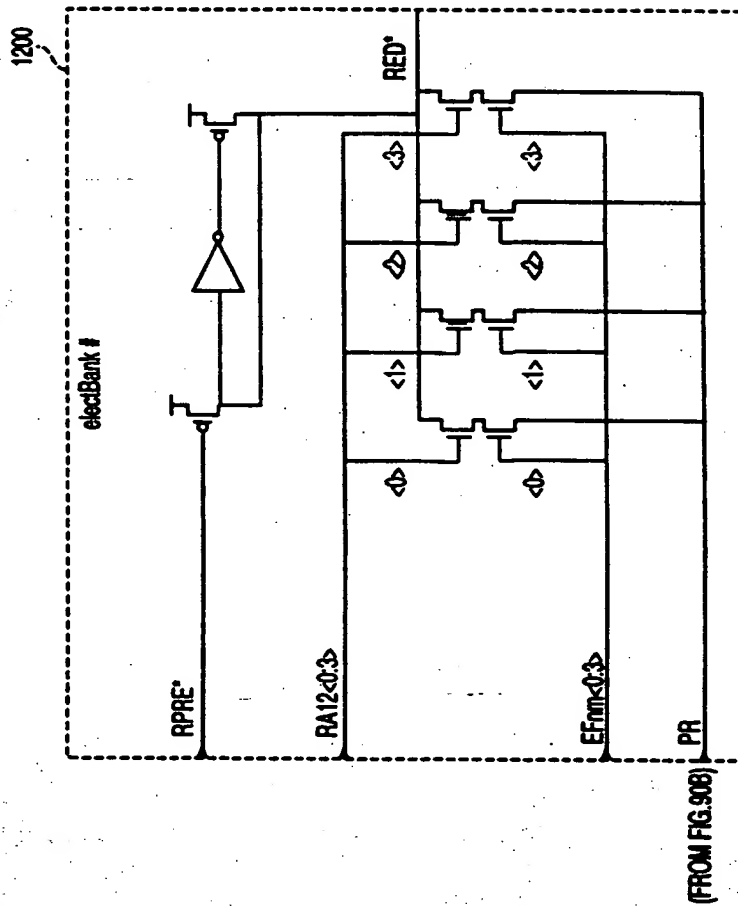


FIG. 90A

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11
F00290/21258860

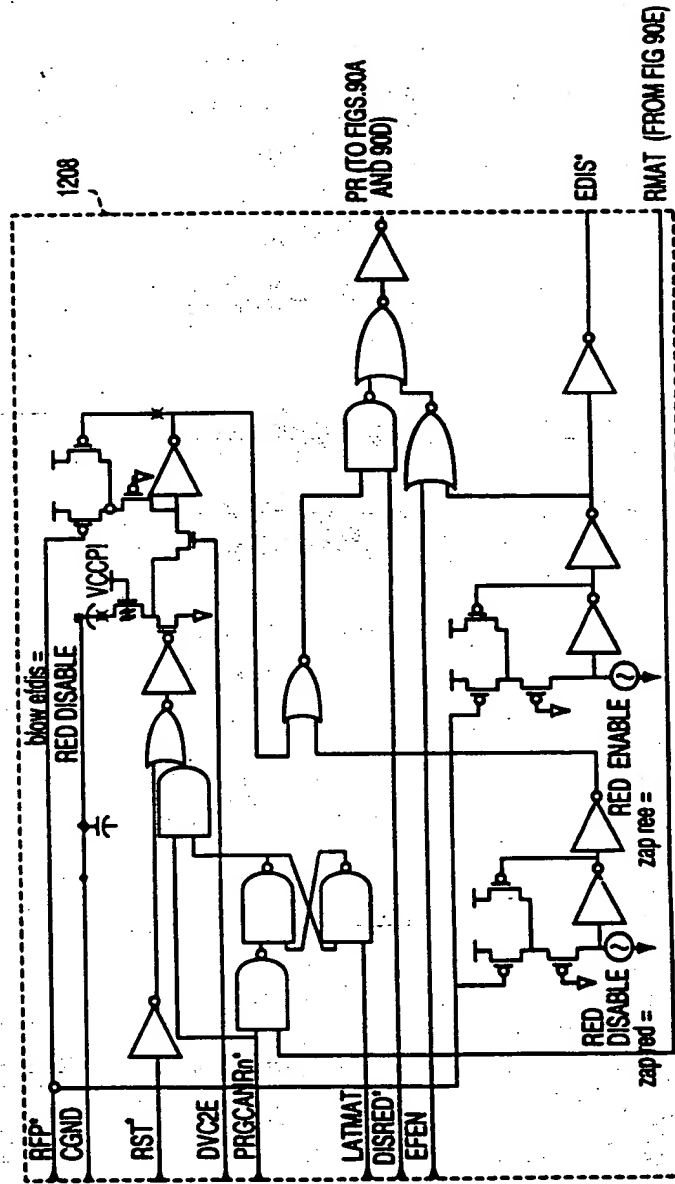


FIG. 90B

11
T00290, ZT258860

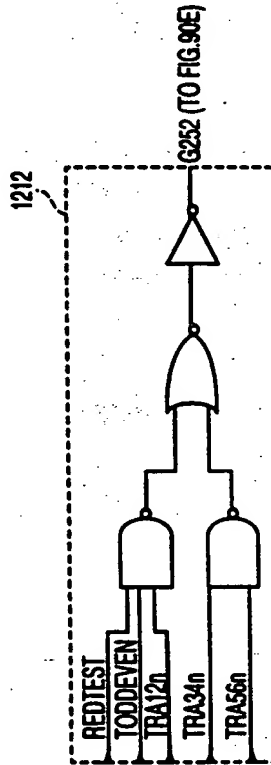


FIG. 90C

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100296-1258860

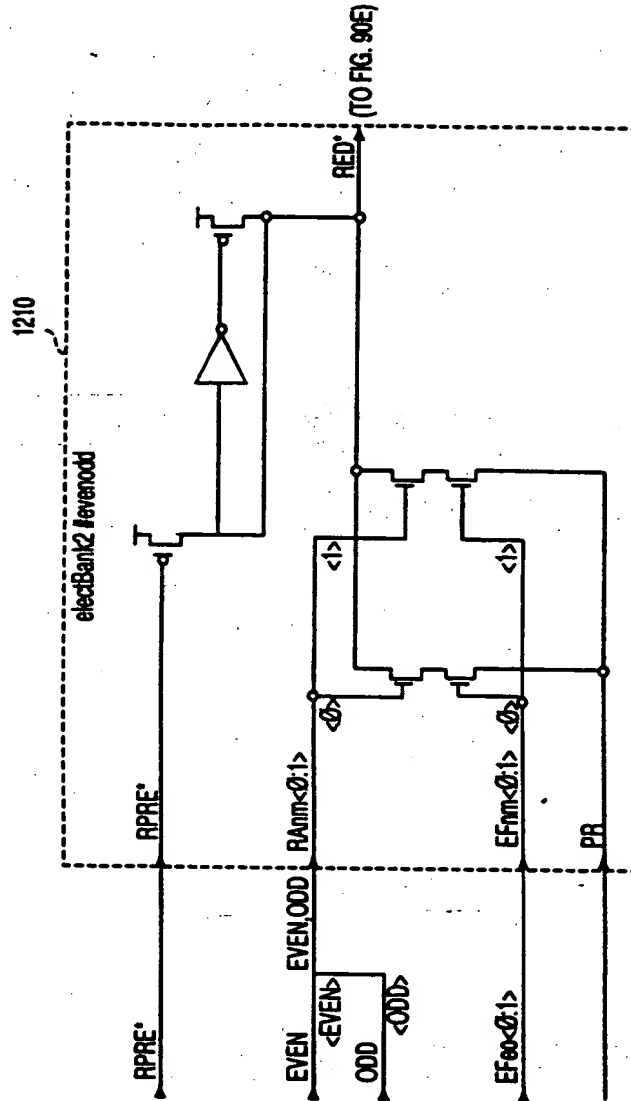


FIG. 90D

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100290 71258860

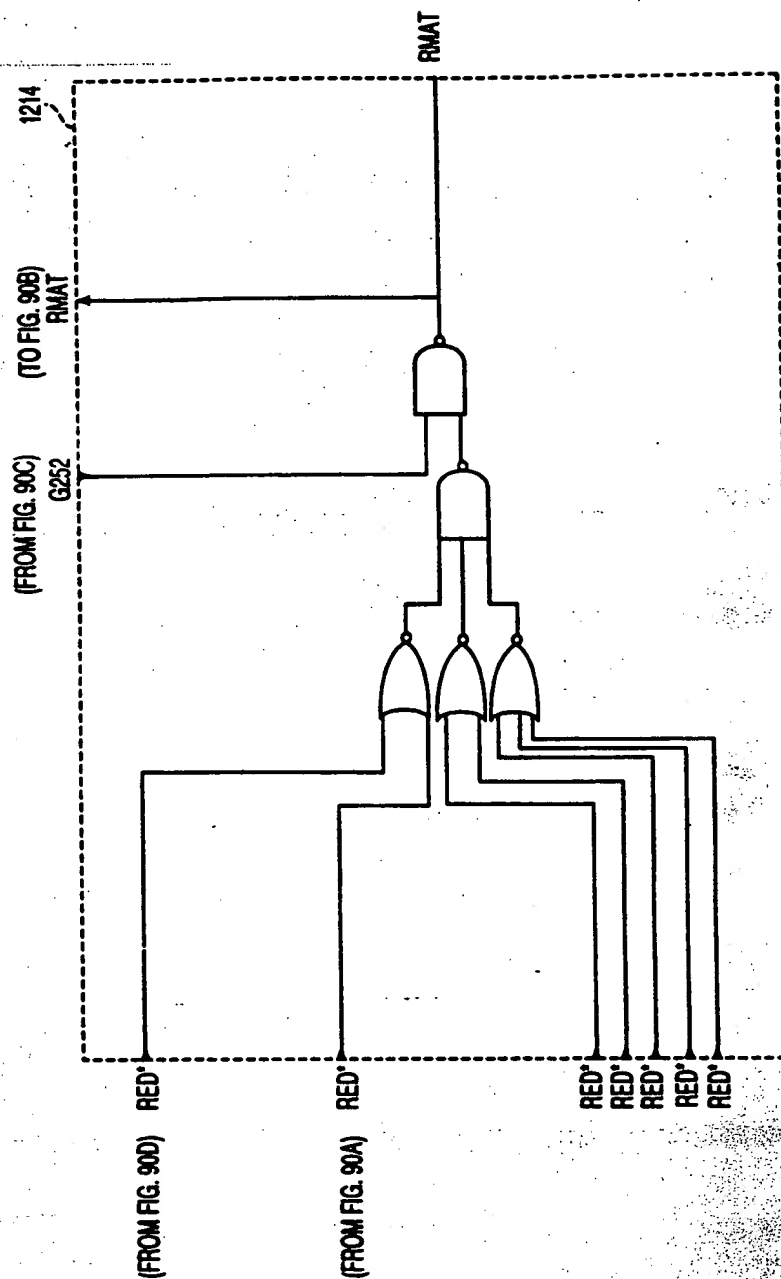


FIG. 90E

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-1187

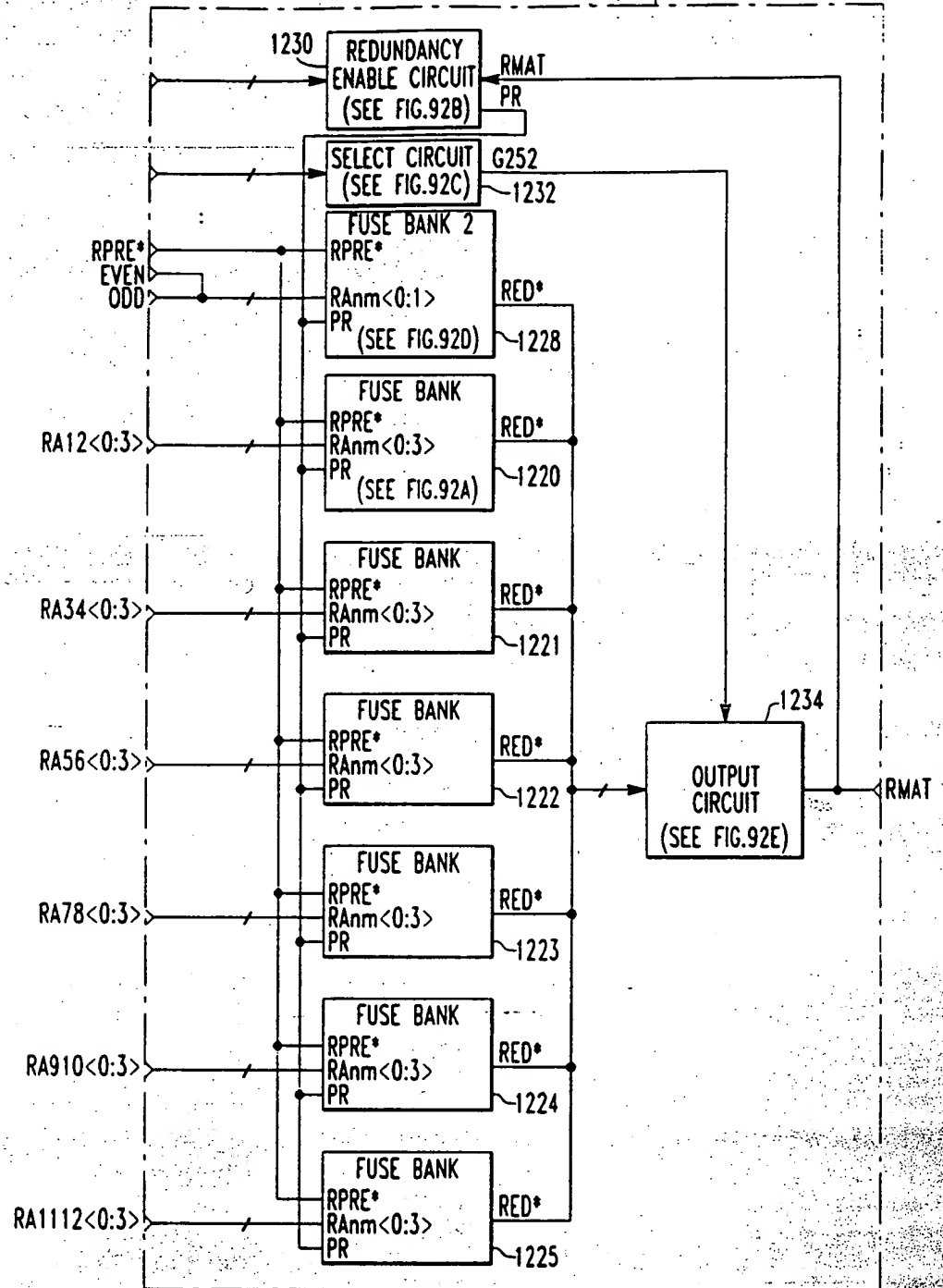


FIG. 91

100290-1258860

0533517-1062001

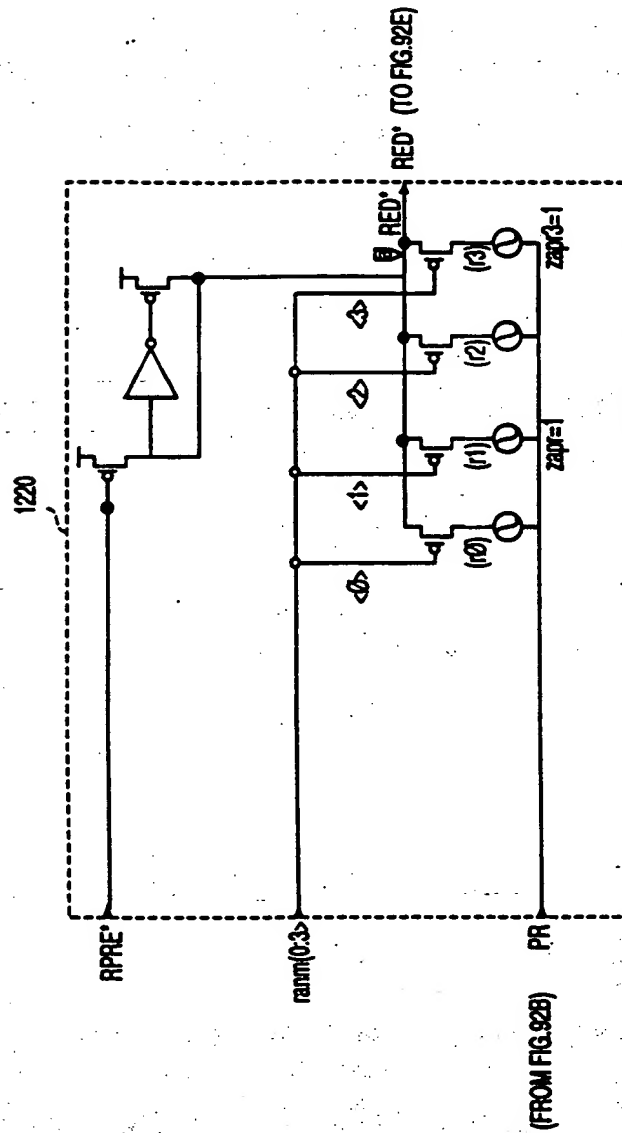


FIG. 92A

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100290-71258860

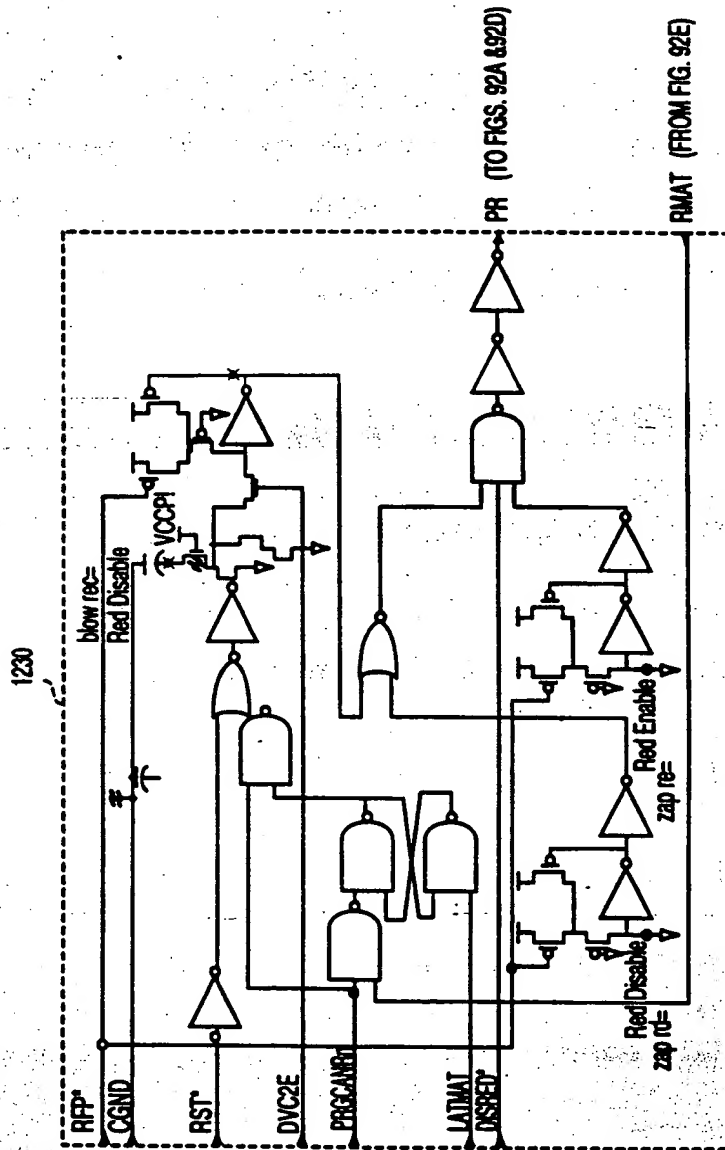


FIG. 92B

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11
1002901/1258860

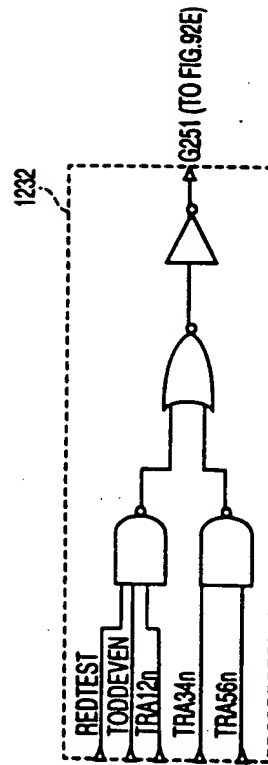
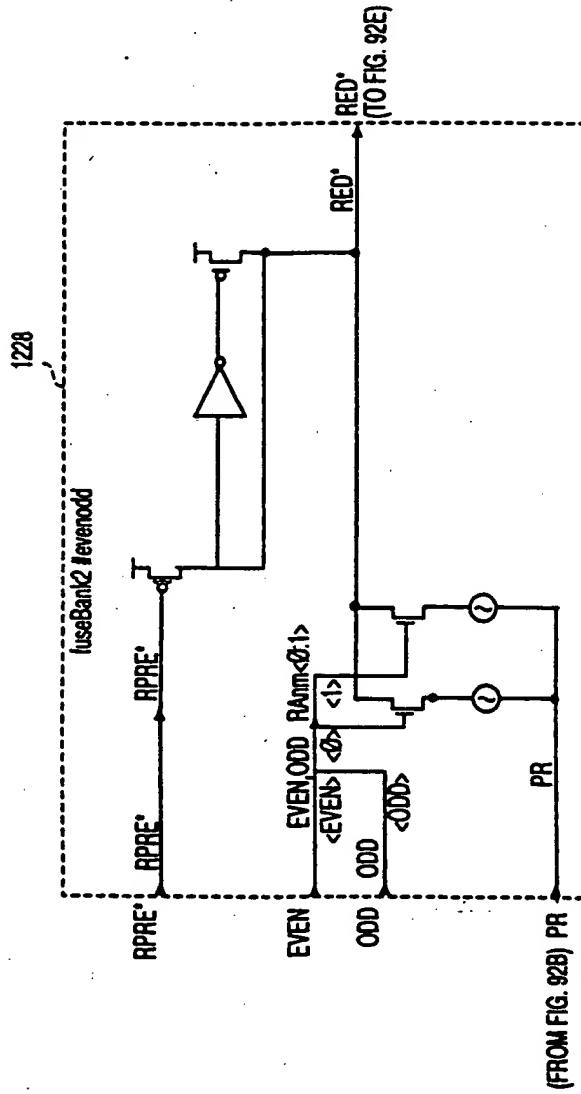


FIG. 92C

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100290-1258860



(FROM FIG. 92B) PR

FIG. 92D

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11
T00290/21258860

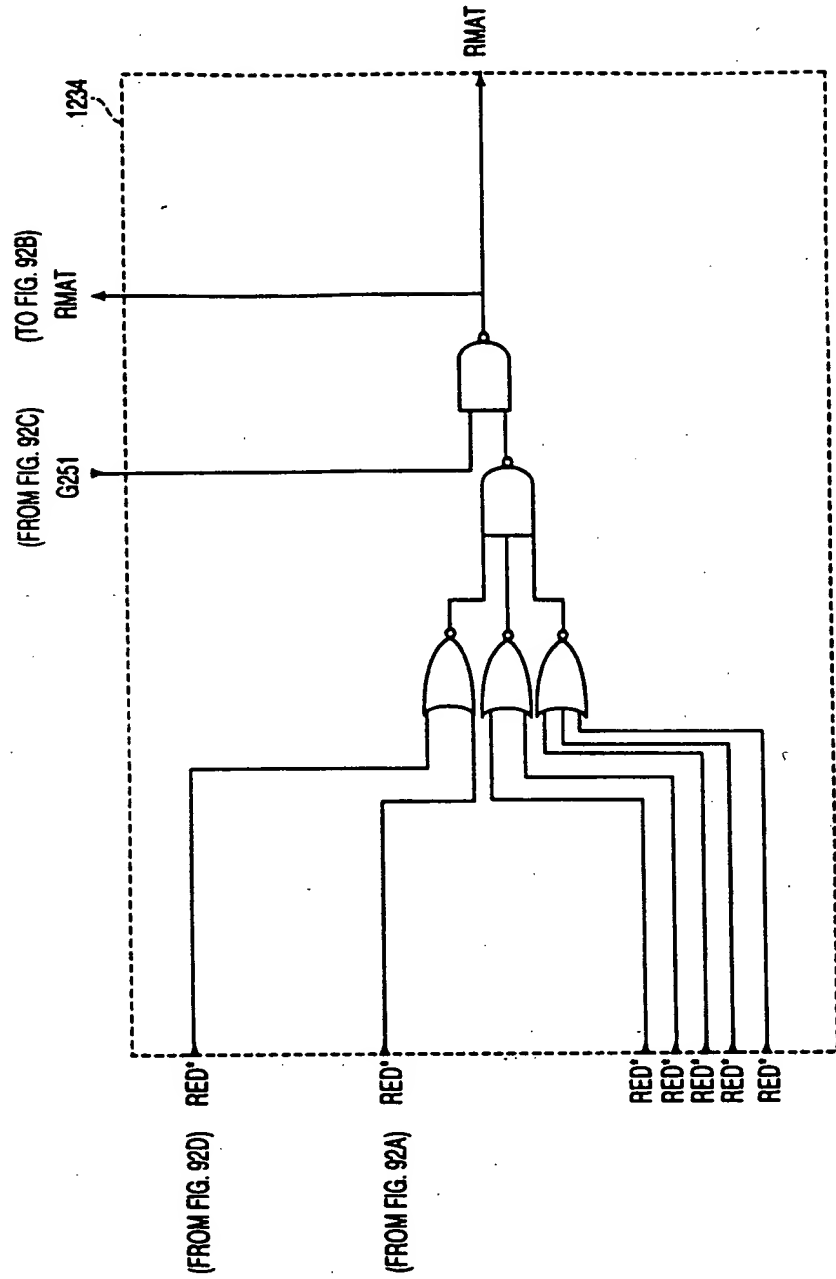


FIG. 92E

100290-2125860

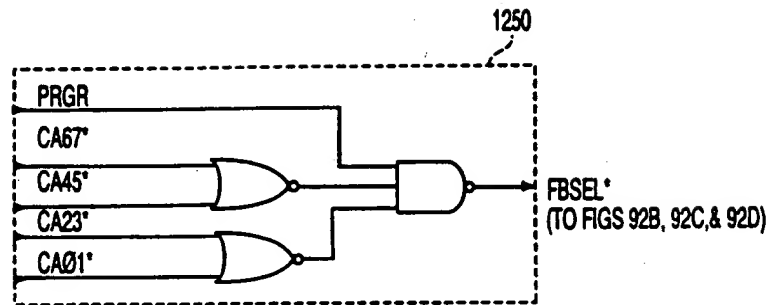


FIG. 93A

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11
100290-71258860

1252

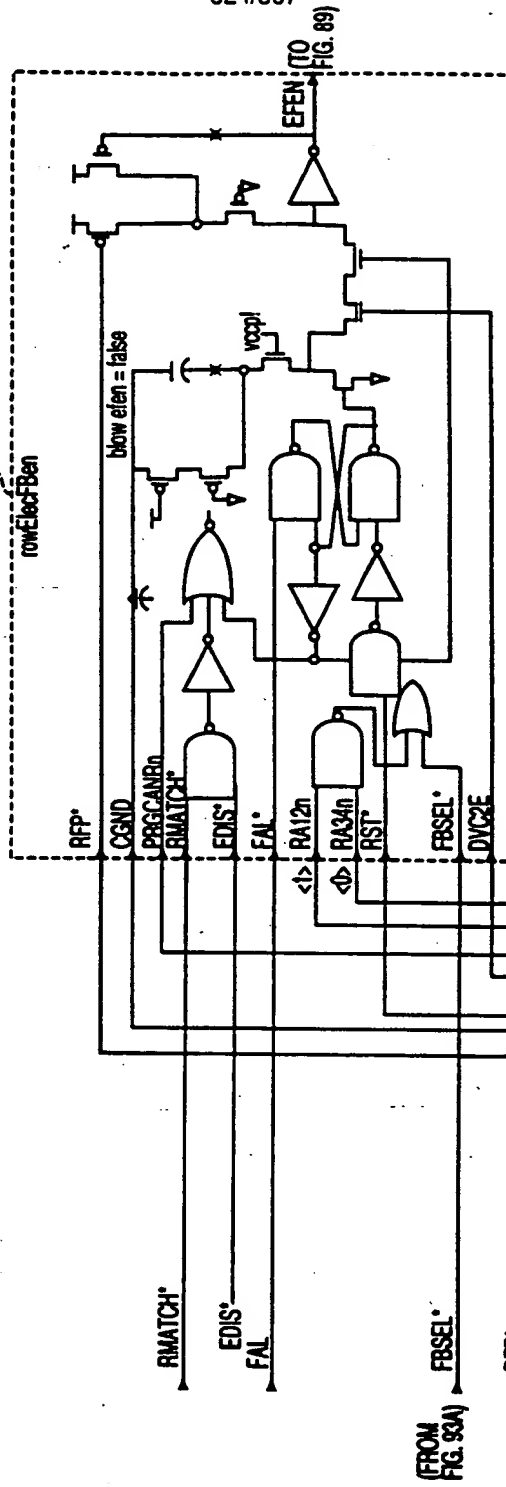


FIG. 93B

100290-1258860

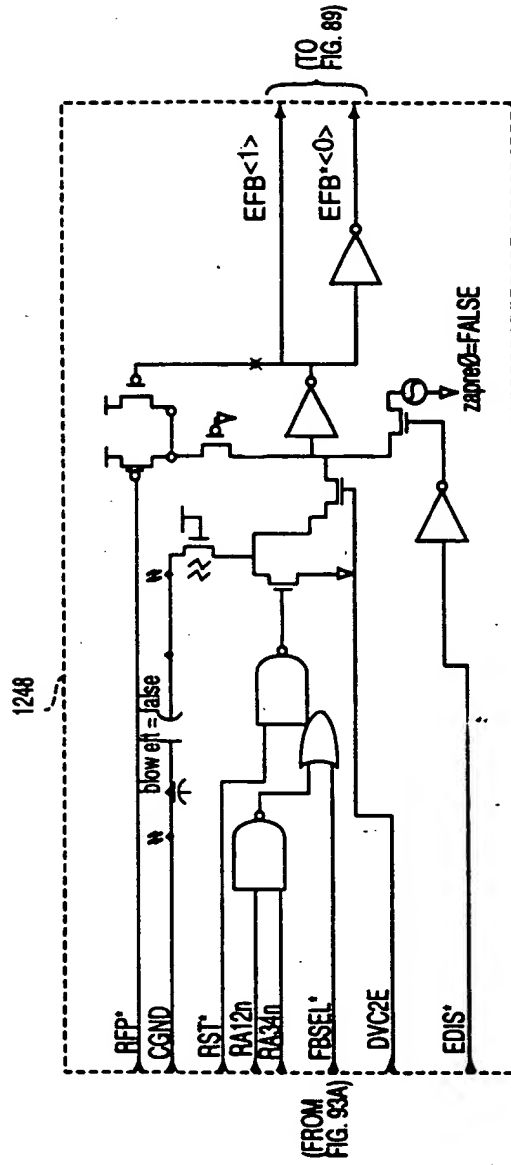


FIG. 93C

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100290-71258860

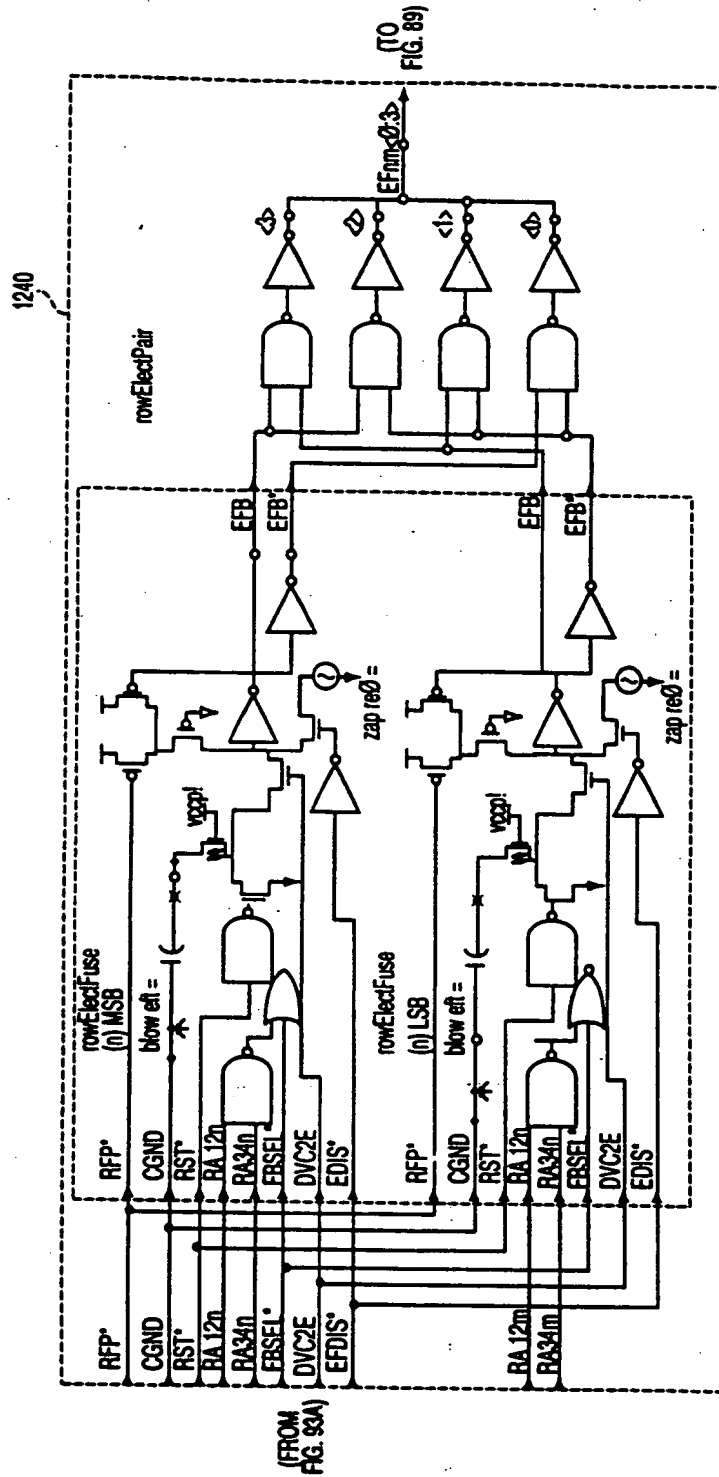


FIG. 93D

0988517 062001
100290 71258860

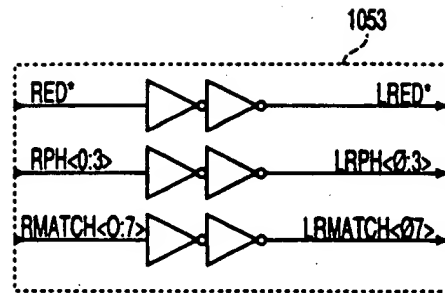


FIG. 94

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1059

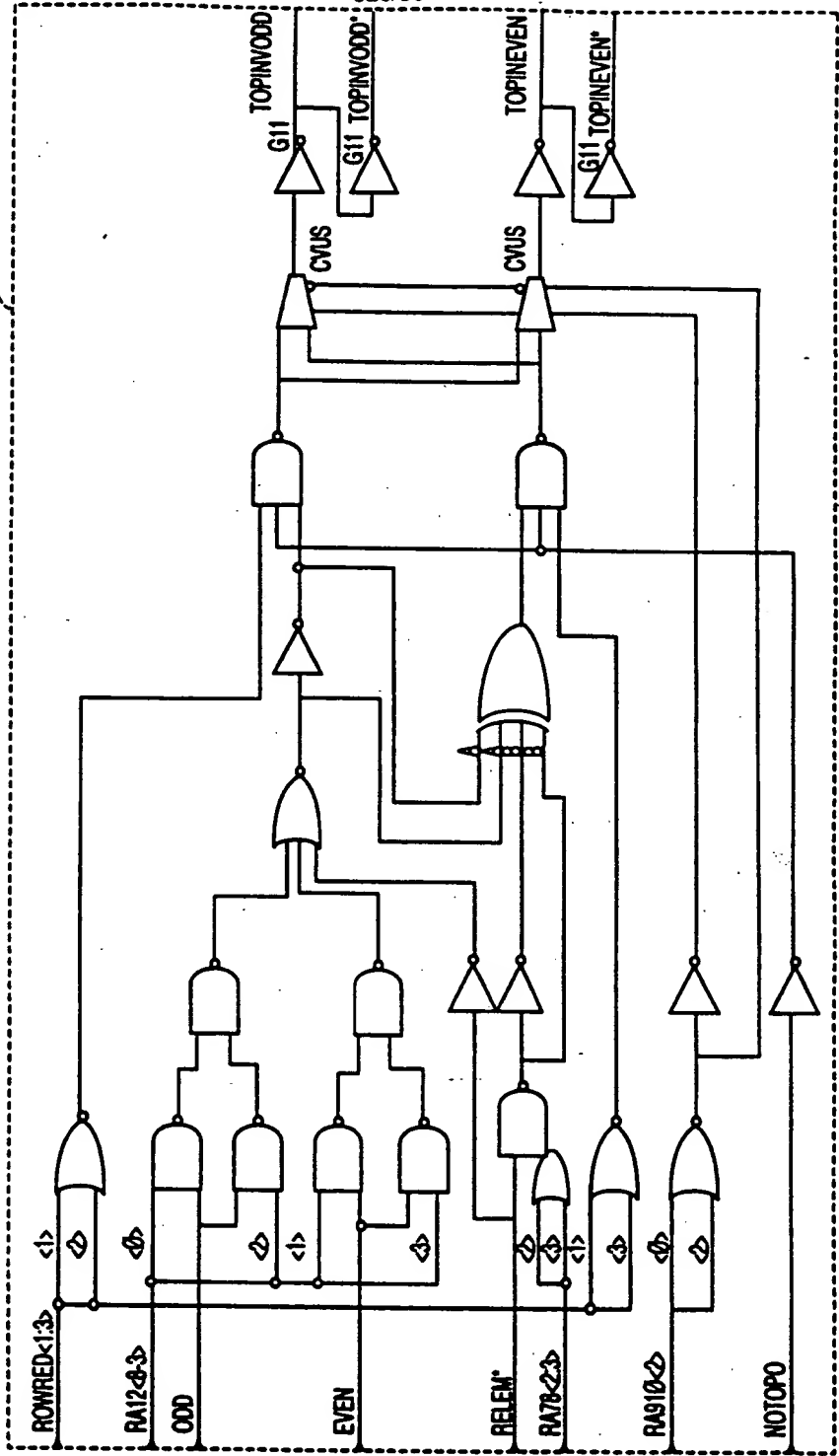


FIG. 95

100290/1258860

of 2.10m

0885217-062001
11
100290-7258860

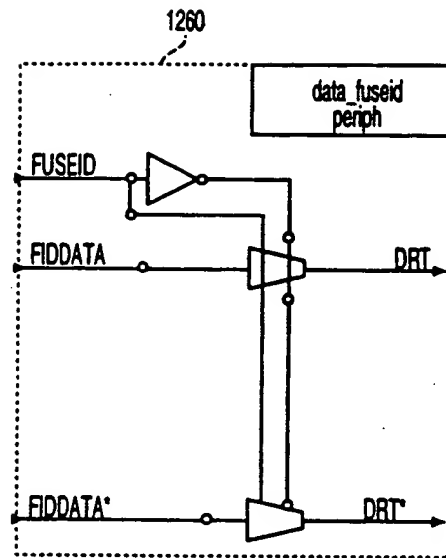
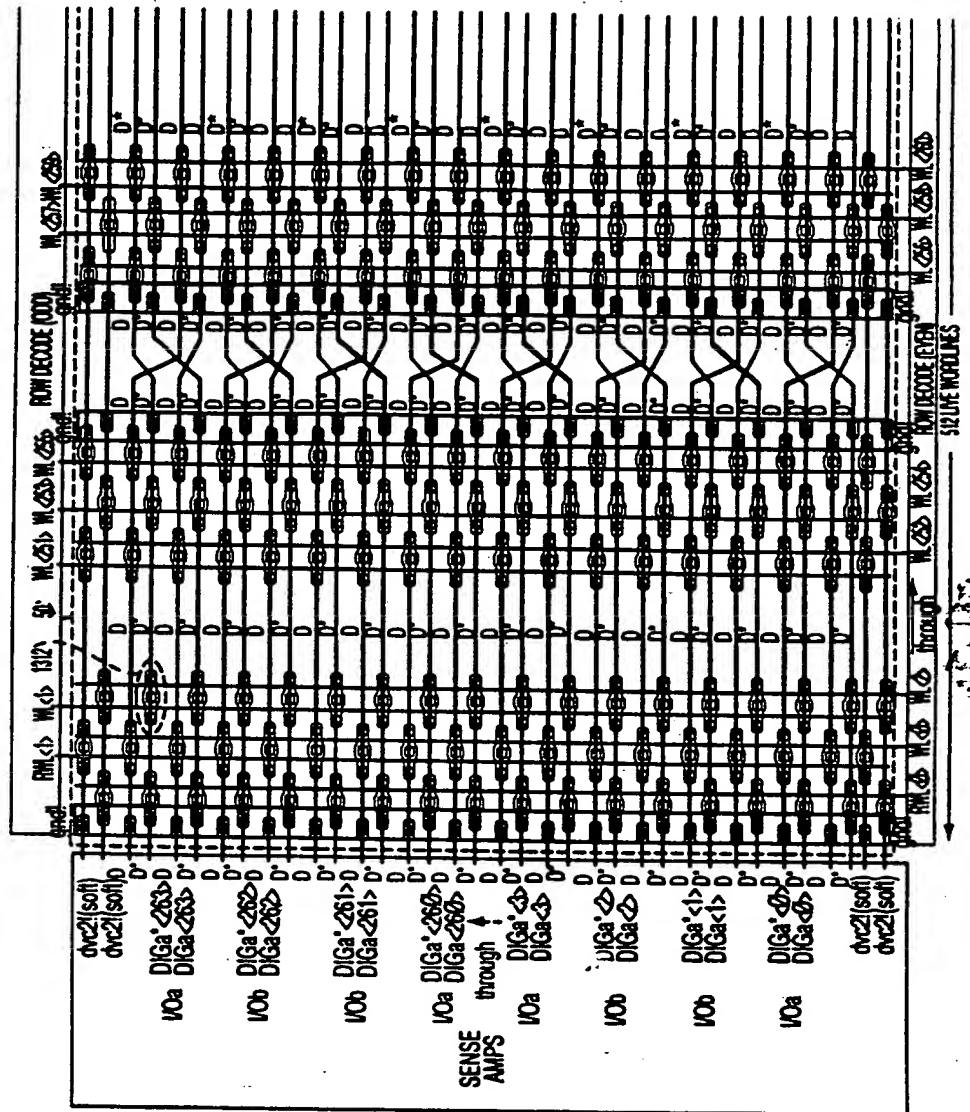


FIG. 96

U.S. DEPARTMENT OF AGRICULTURE



512 NORMAL DIGIT PAIRS
32 REDUNDANT DIGIT PAIRS

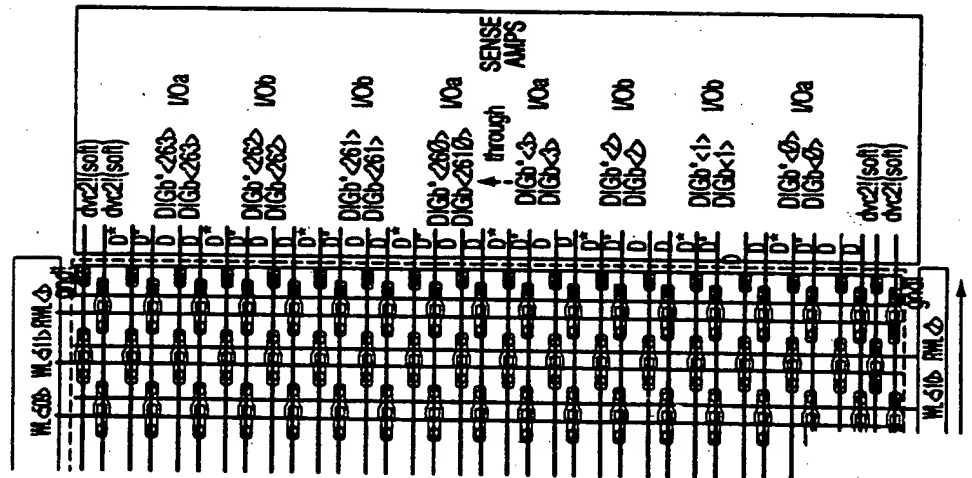
FIG. 97-1 FIG. 97-2

FIG. 97-1

056571-056577

FIG. 97-1 FIG. 97-2

FIG. 97-2



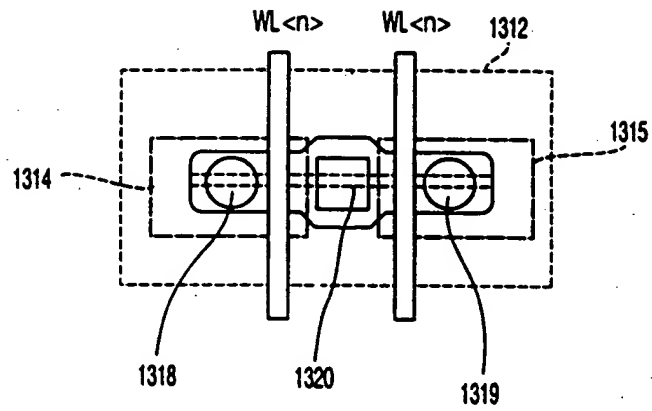


FIG. 98

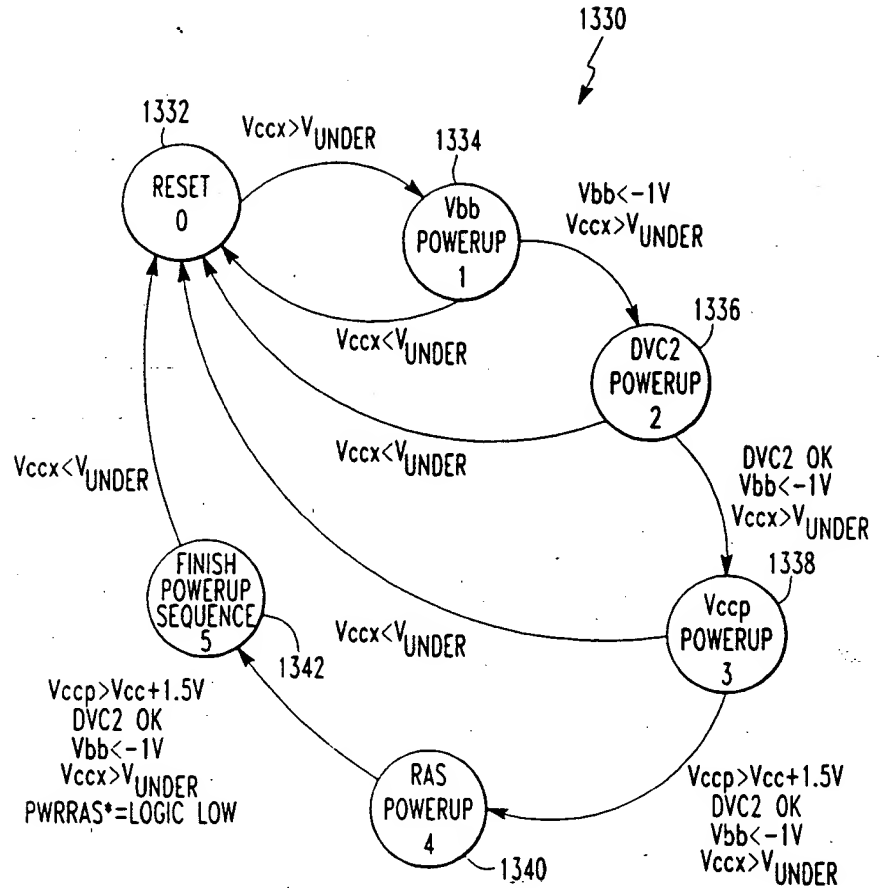


FIG. 99

1002901/1258860

1348

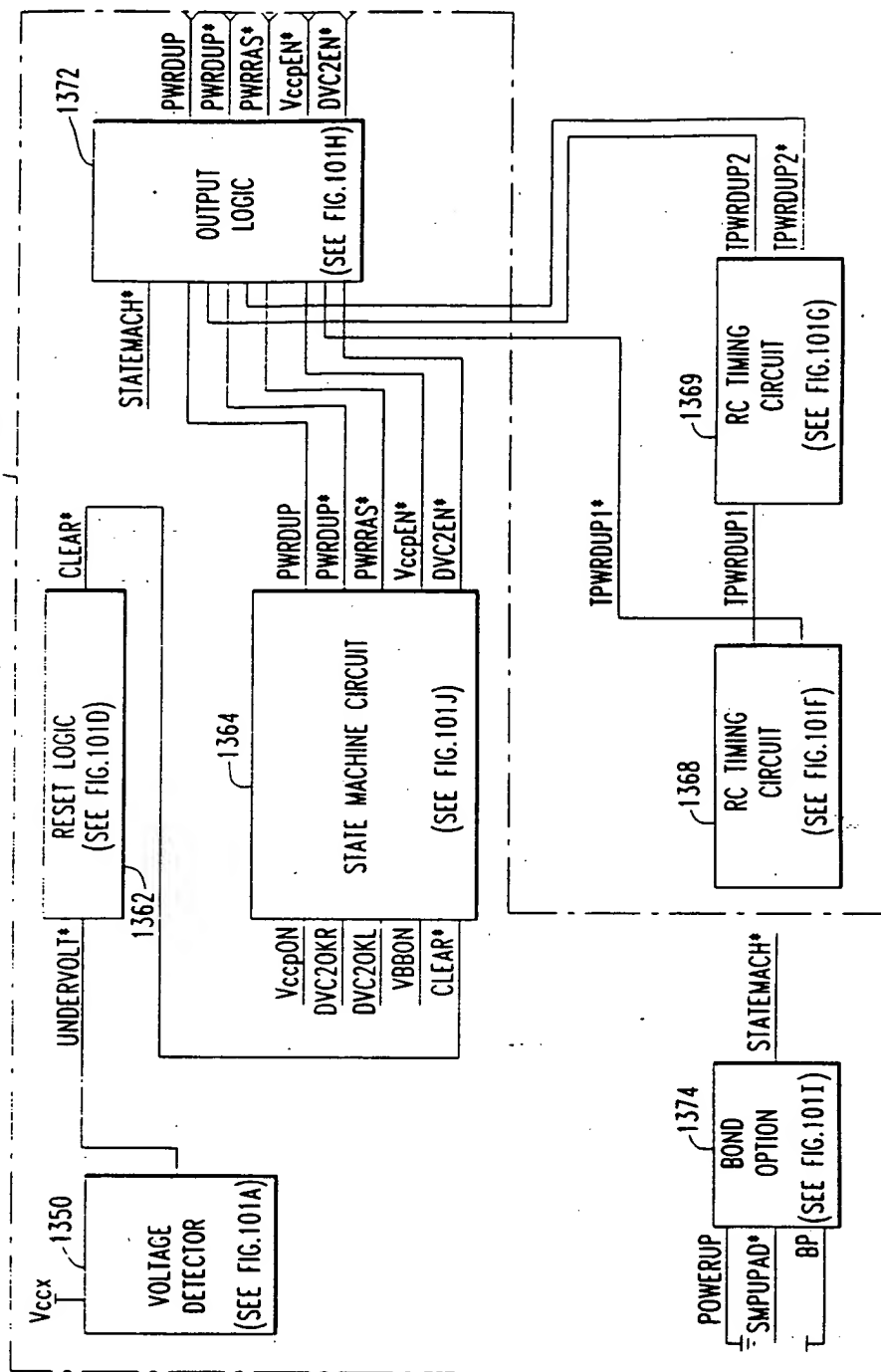


FIG. 100

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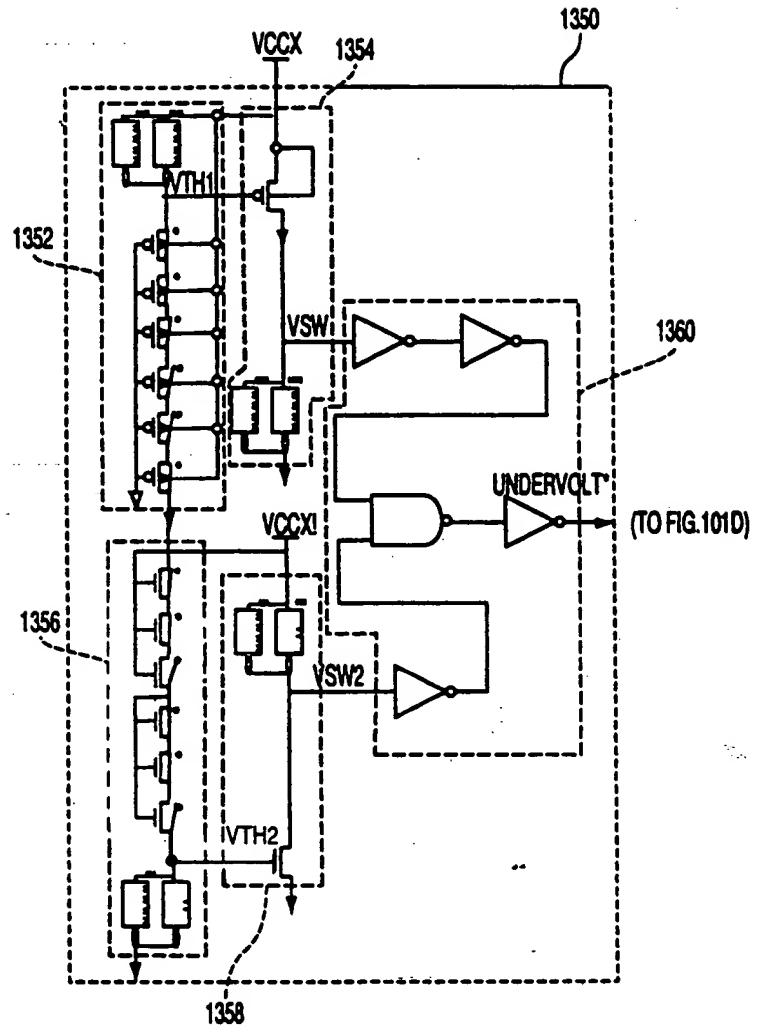


FIG. 101A

09852171062001
110029071258860

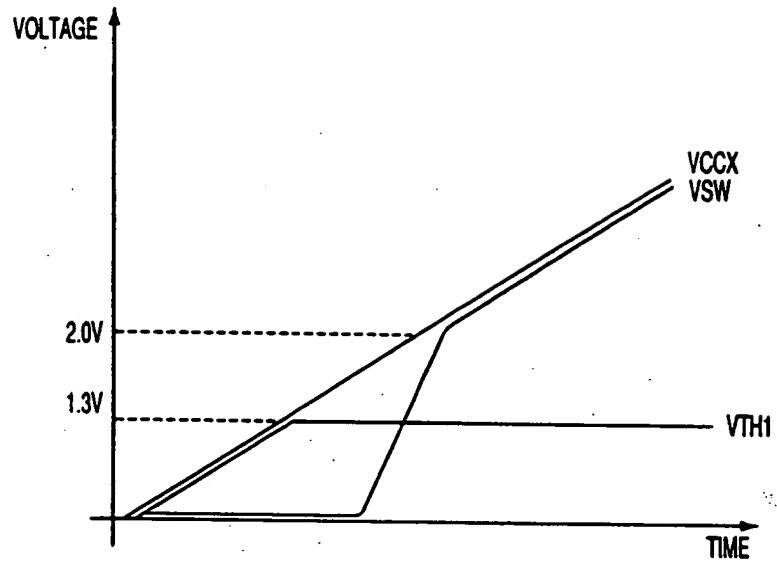


FIG. 101B

09885217-062001

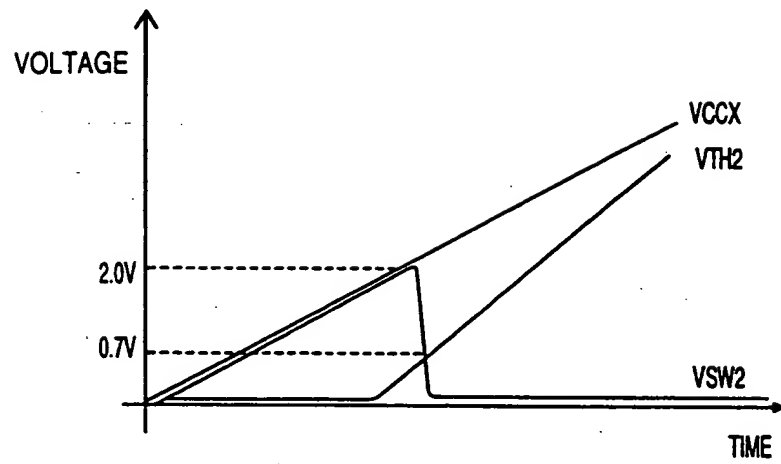


FIG. 101C

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1002901/1258860

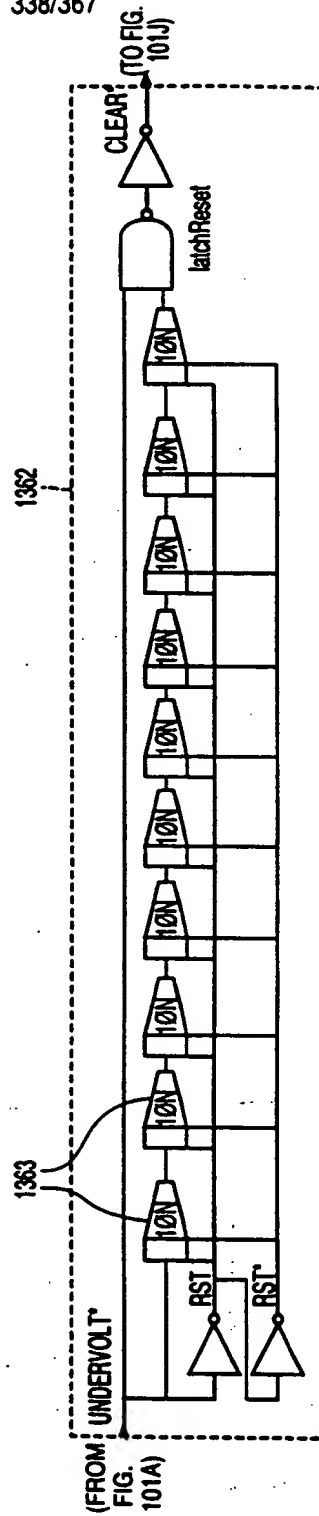


FIG. 101D

100290 1258860

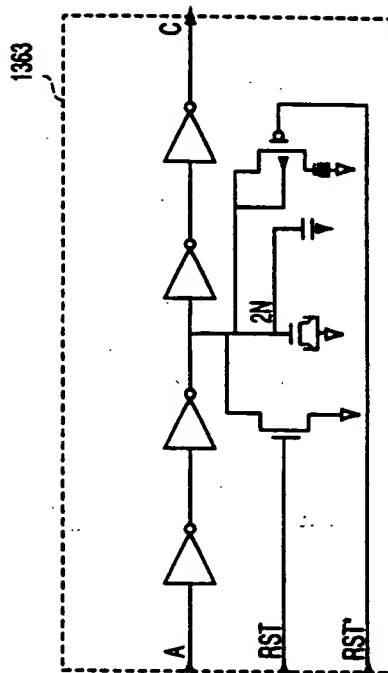


FIG. 101E

11
T002901/125860

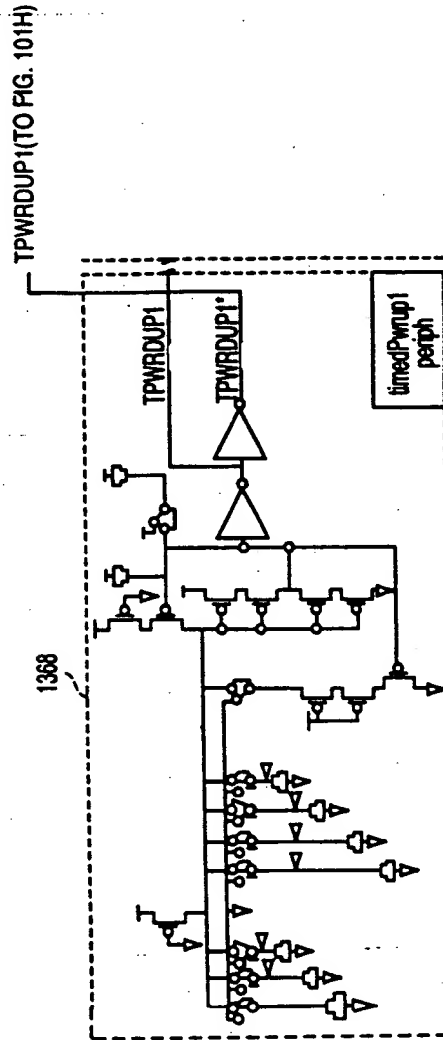


FIG. 101F

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

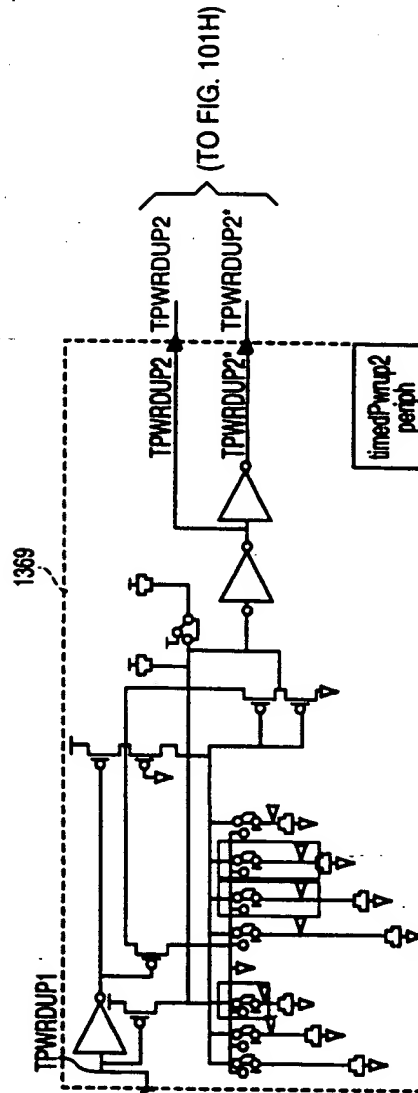


FIG. 101G

100290 1258860

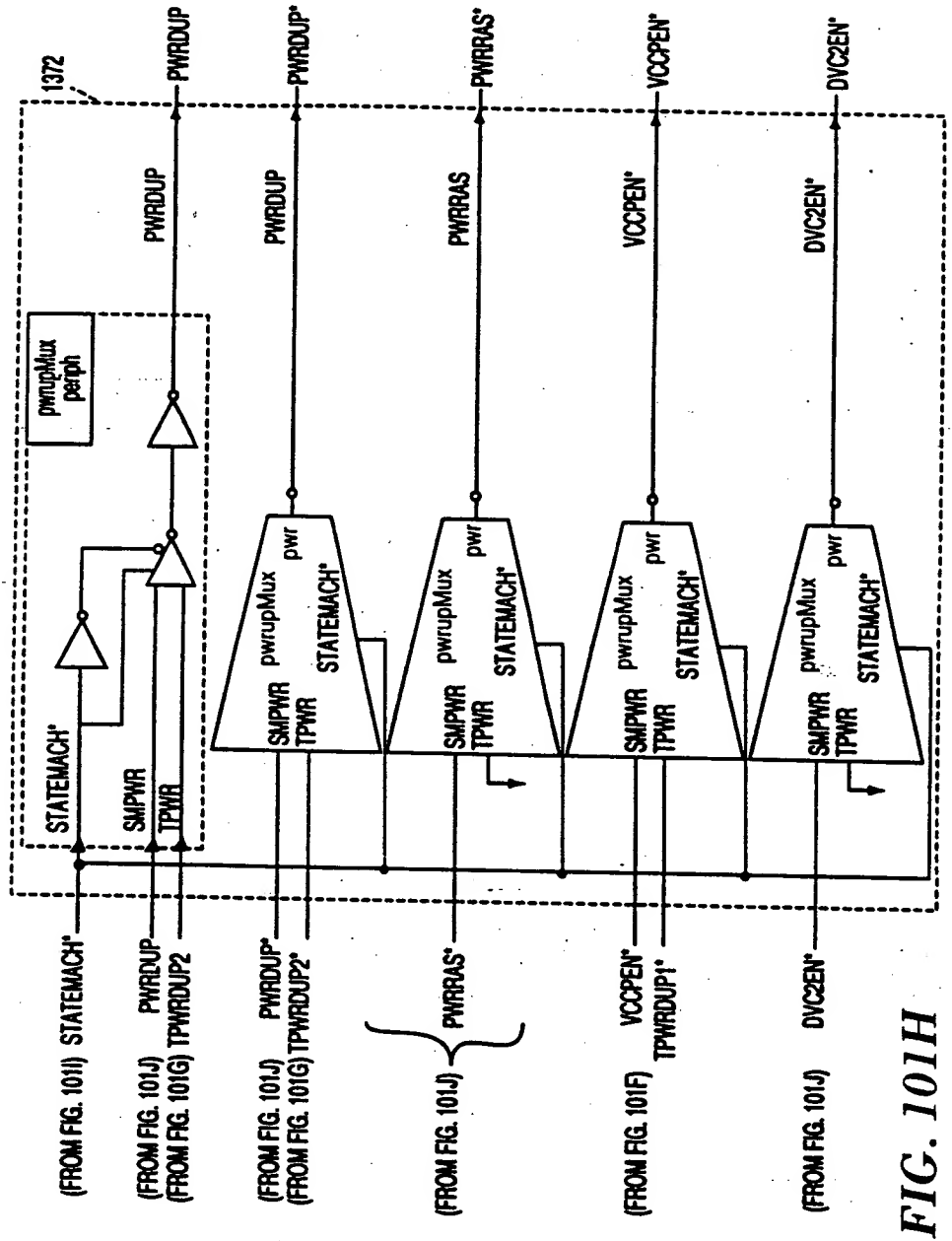


FIG. 101H

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11
T00290 21258860

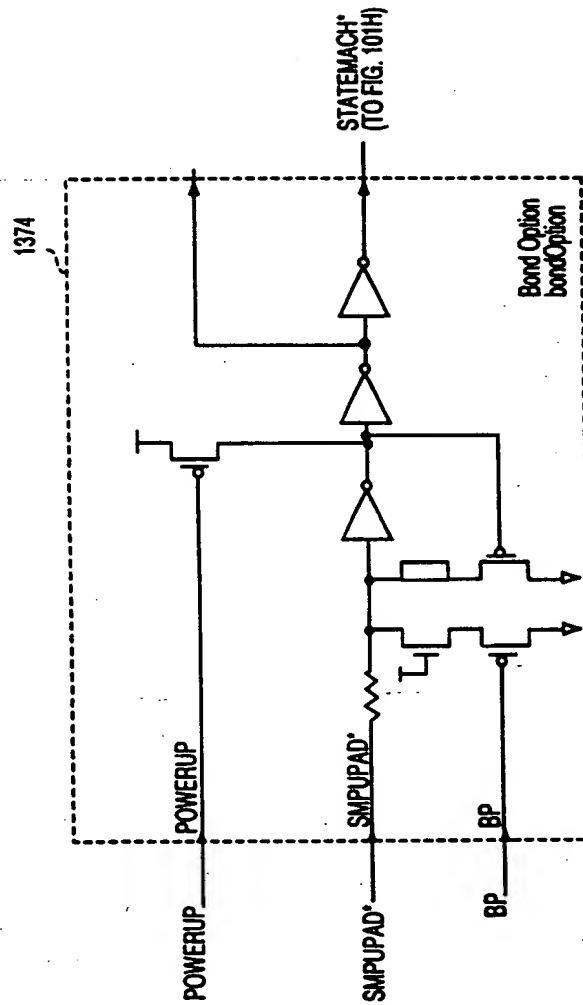


FIG. 101I

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(TO FIG
101H)

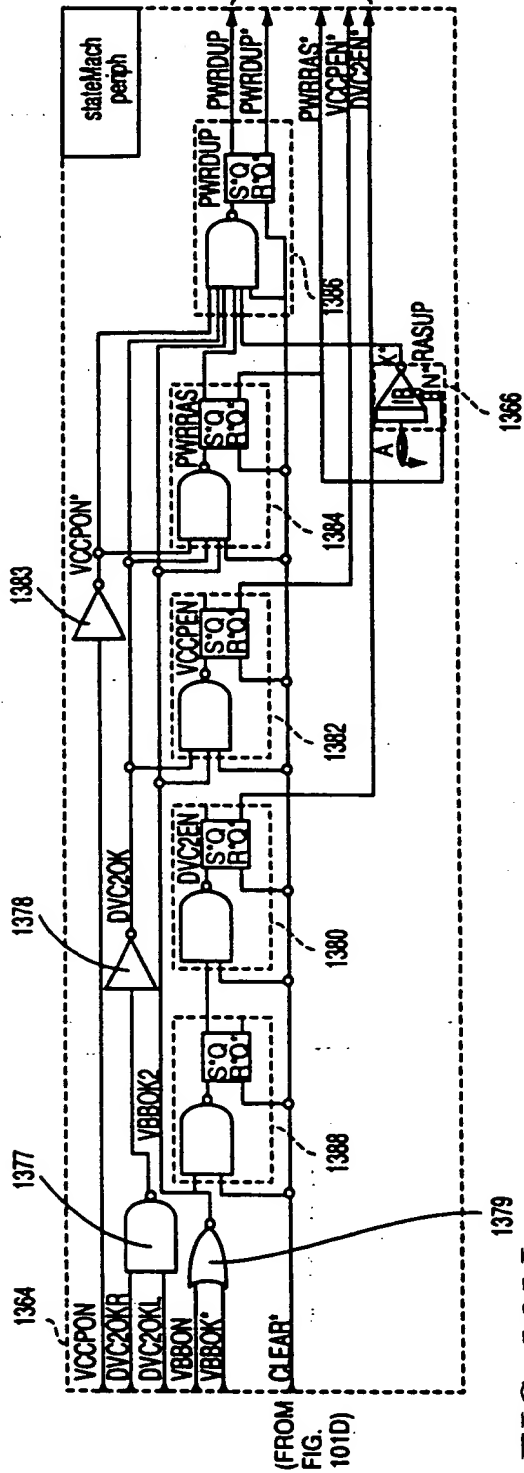
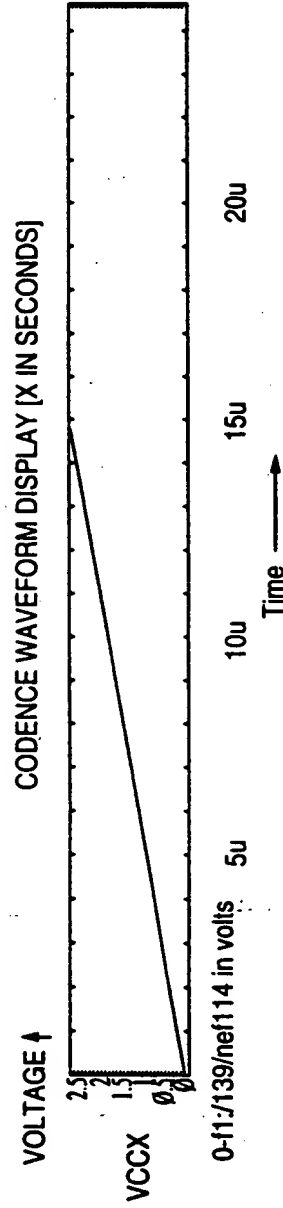


FIG. 101J

100290* 21258860

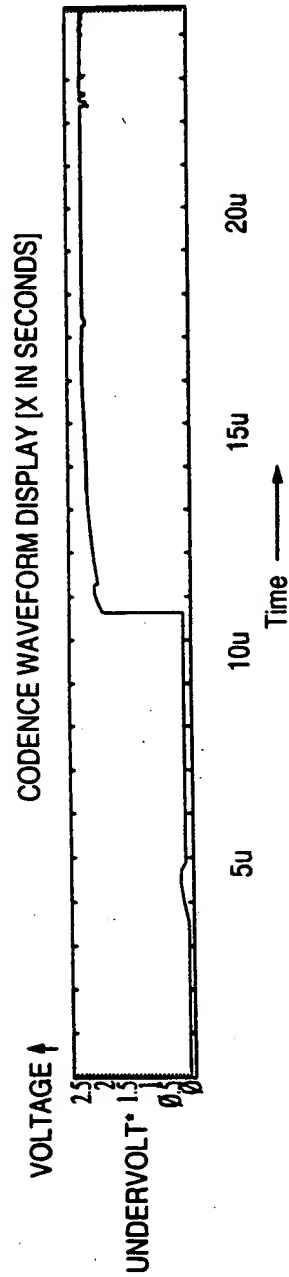
100290 71258860



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102A

11
100290-11258860

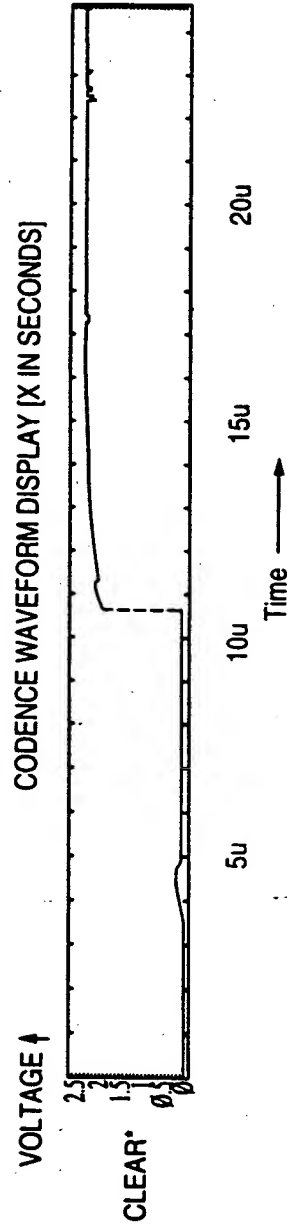


NOTE THAT PWRRAS' WAITED FOR DVC20KR

FIG. 102B

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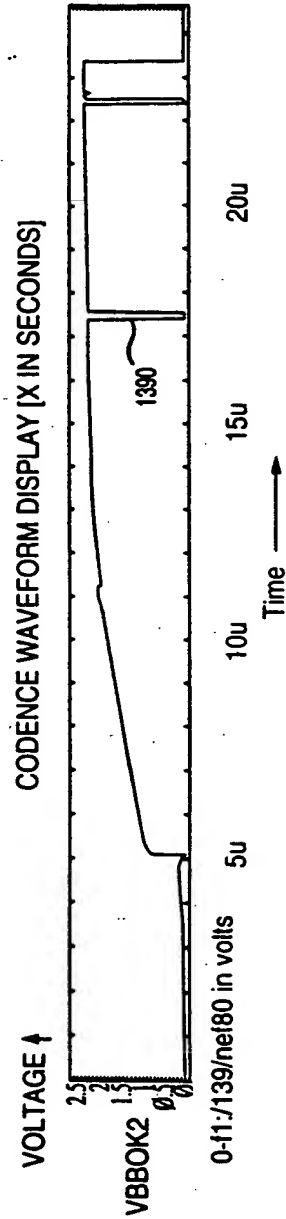
11
100290-1258860



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102C

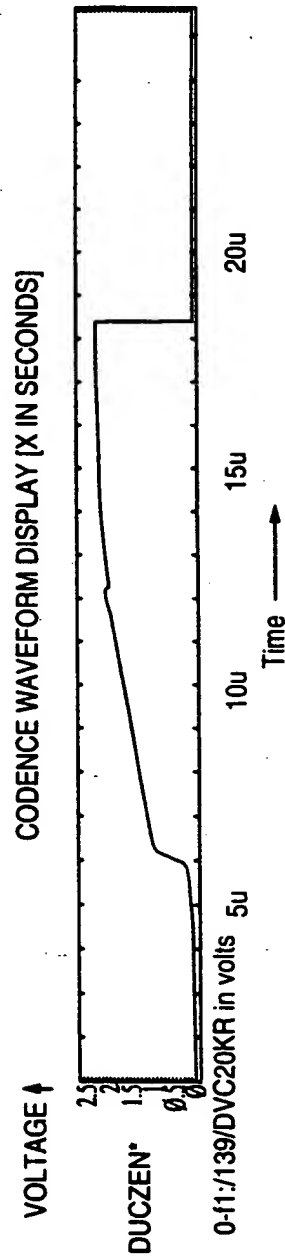
11
E00290-21258860



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102D

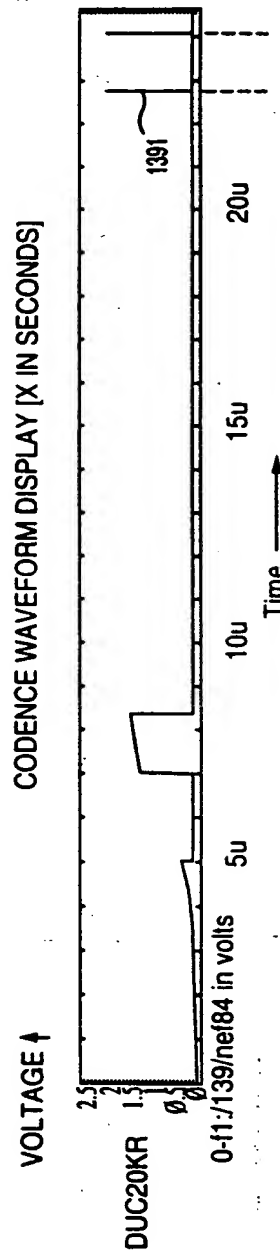
11
F00290-21258860



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102E

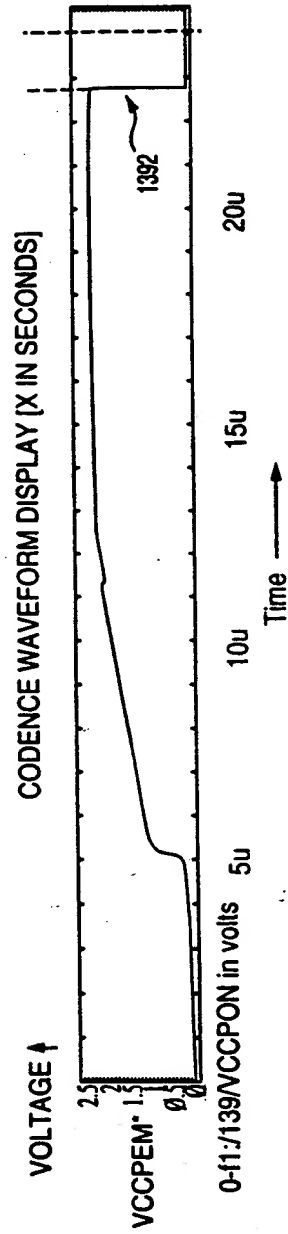
100290-1258860



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102F

11
100290-71258360



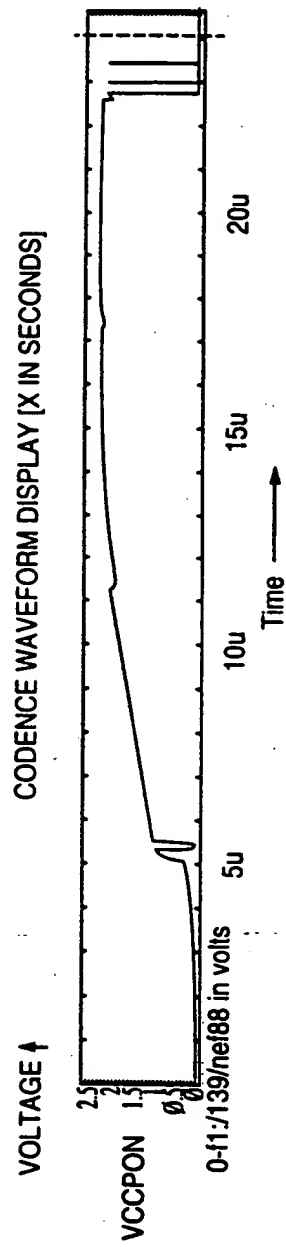
NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102C

11
100290 71258860

PRINT OF DRAWING
AS ORIGINALLY
D

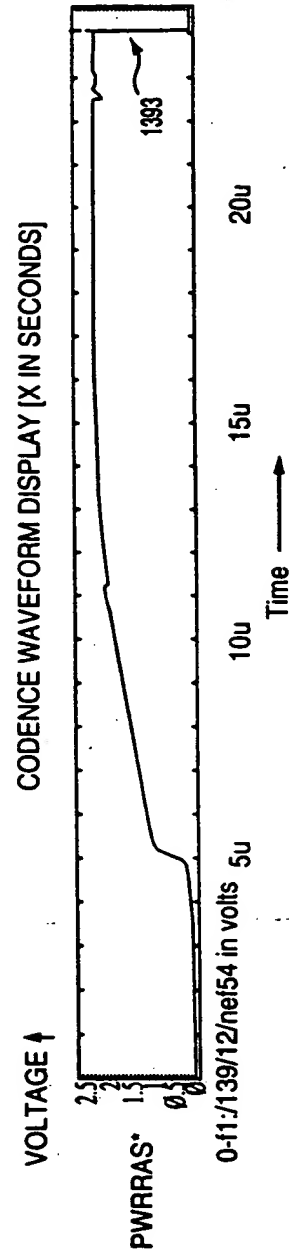
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NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102H

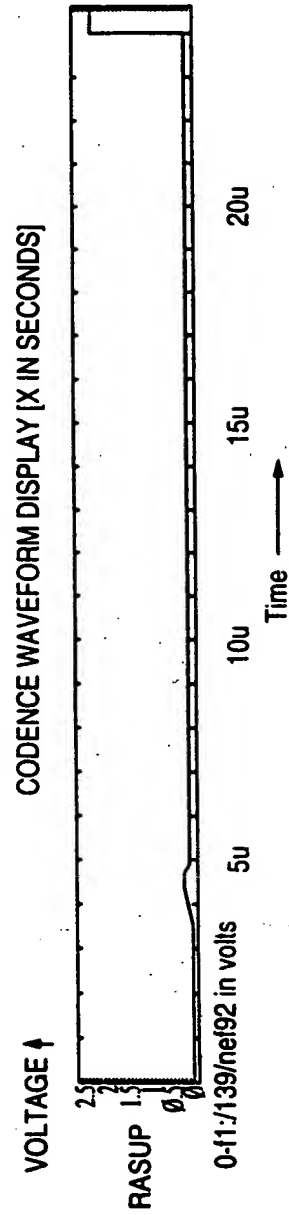
11
E00290-71258860



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102I

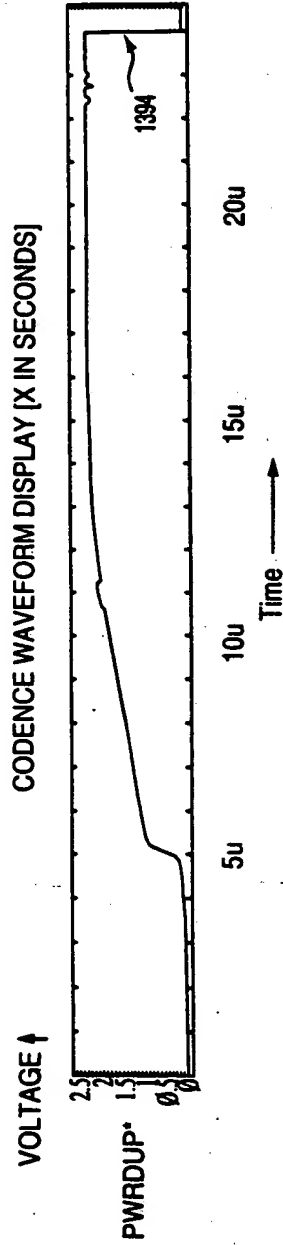
100290-71258860



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102J

11
100290/1258860



NOTE THAT PWRRAS* WAITED FOR DVC20KR

FIG. 102K

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11
100290-71258860

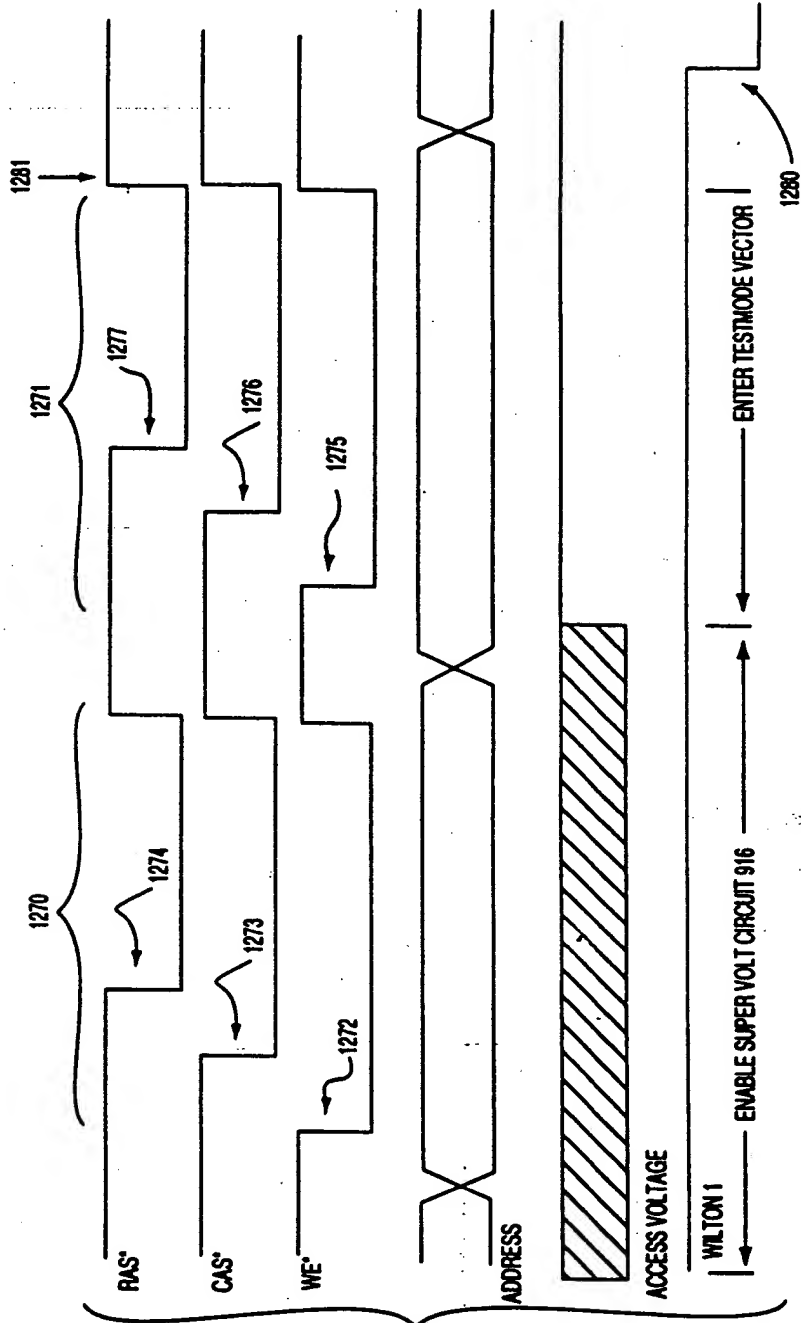


FIG.
103

11

11
T00290-71258860

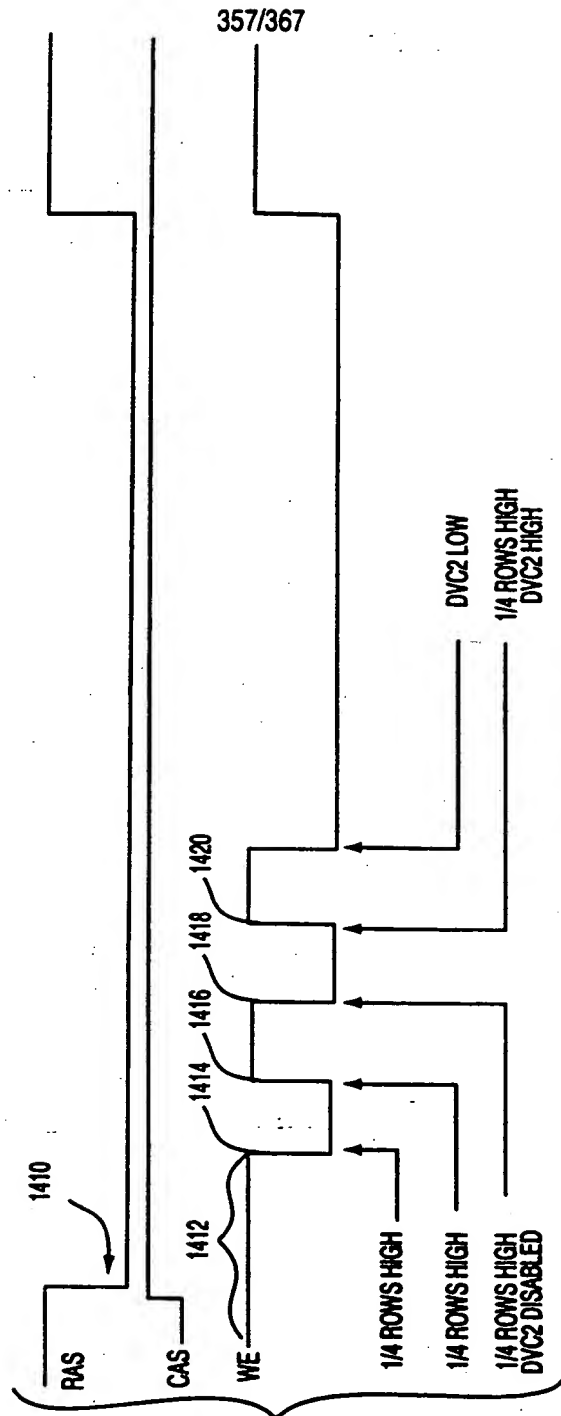
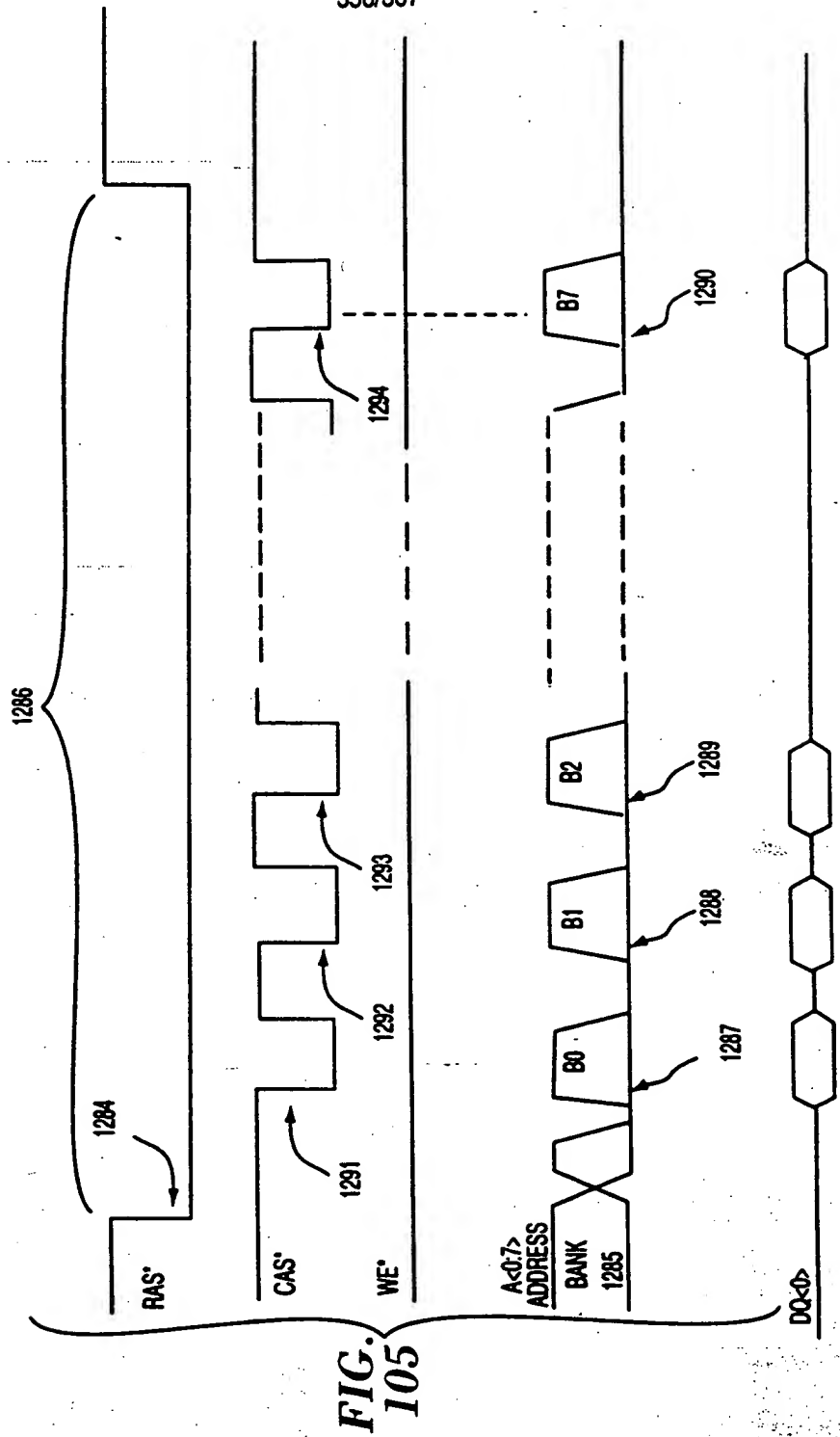


FIG.
104

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11
1002901/1258860

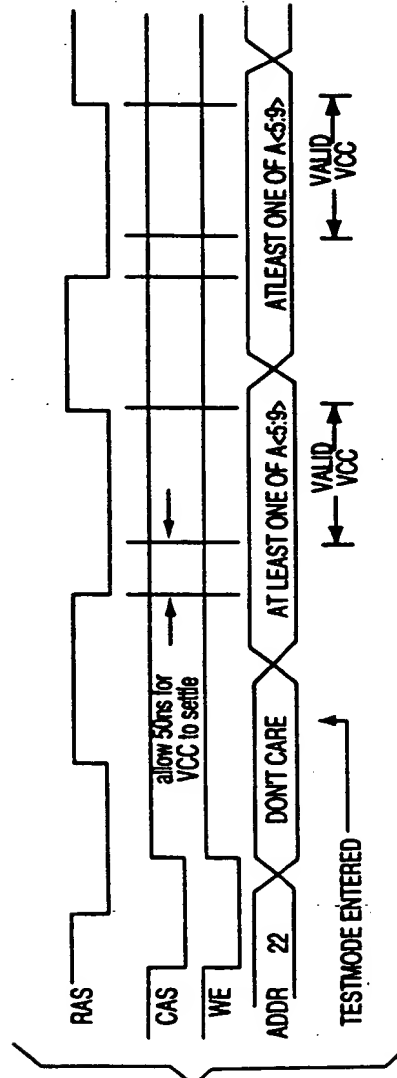


FIG. 106

09885217-062001

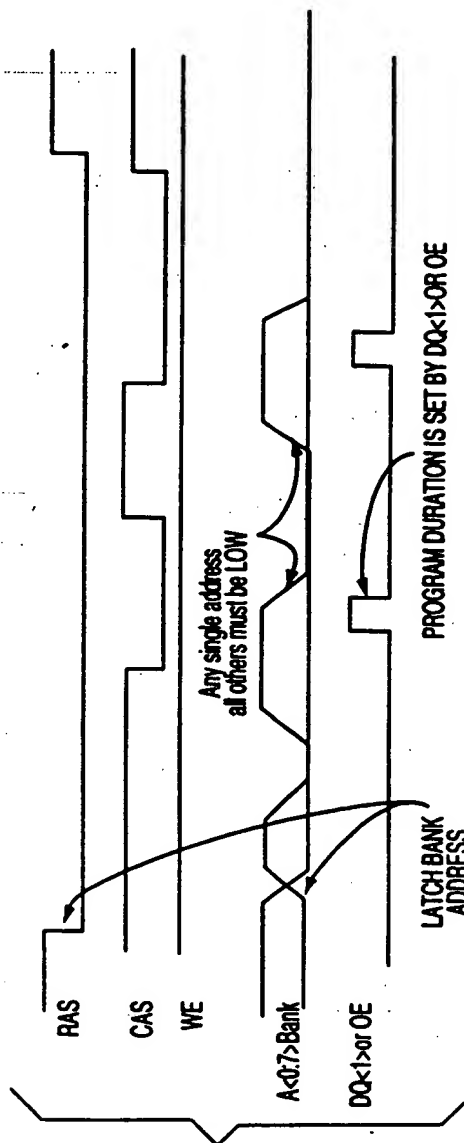


FIG. 107

09885217 062001

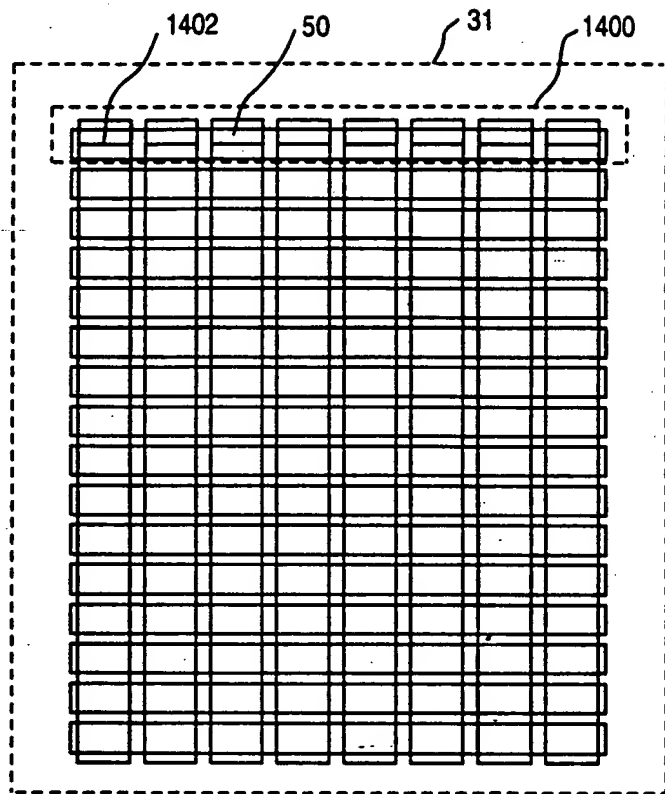
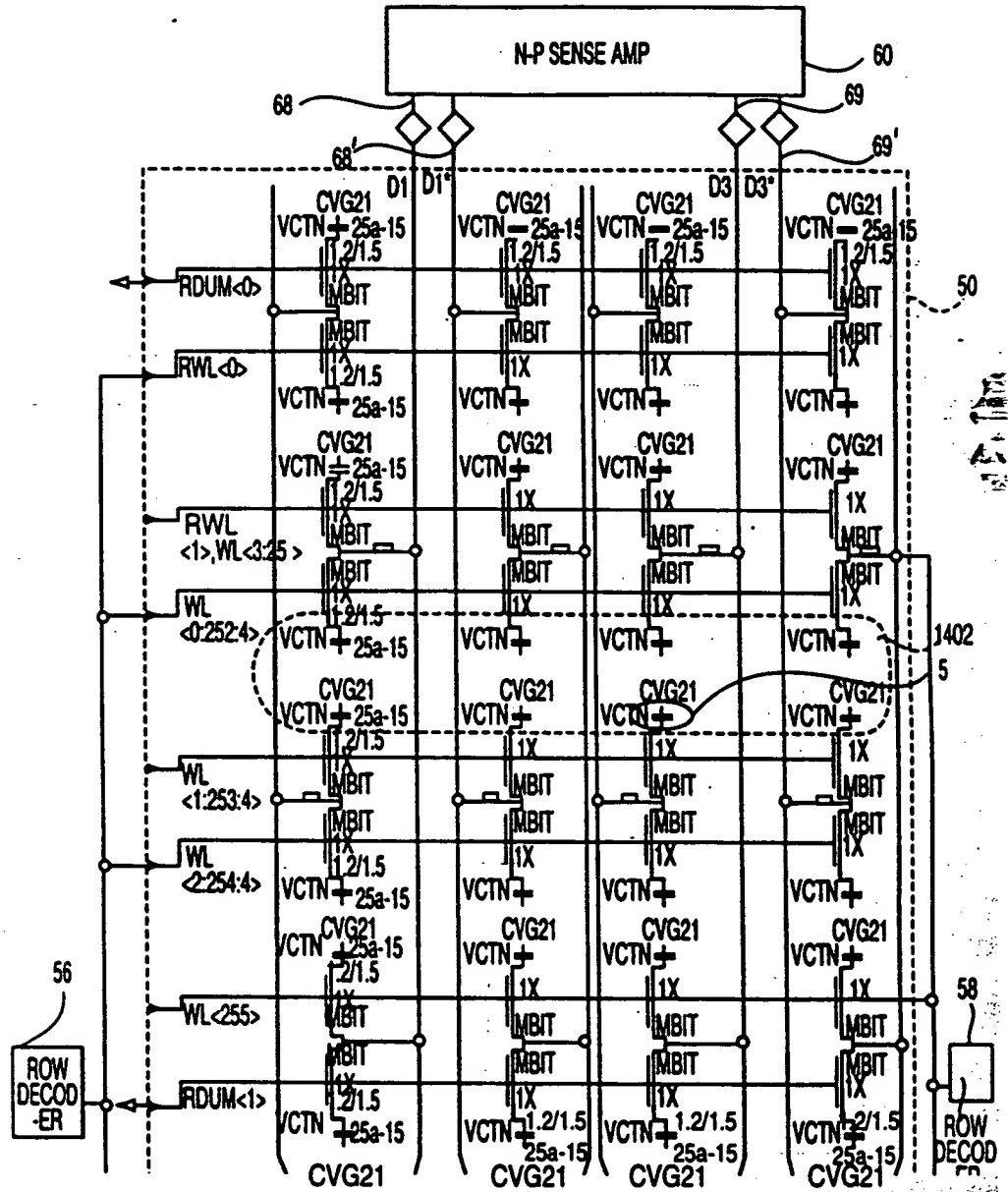


FIG. 108

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FIG. 109-1

FIG. 109-1
FIG. 109-2



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09885217 062001

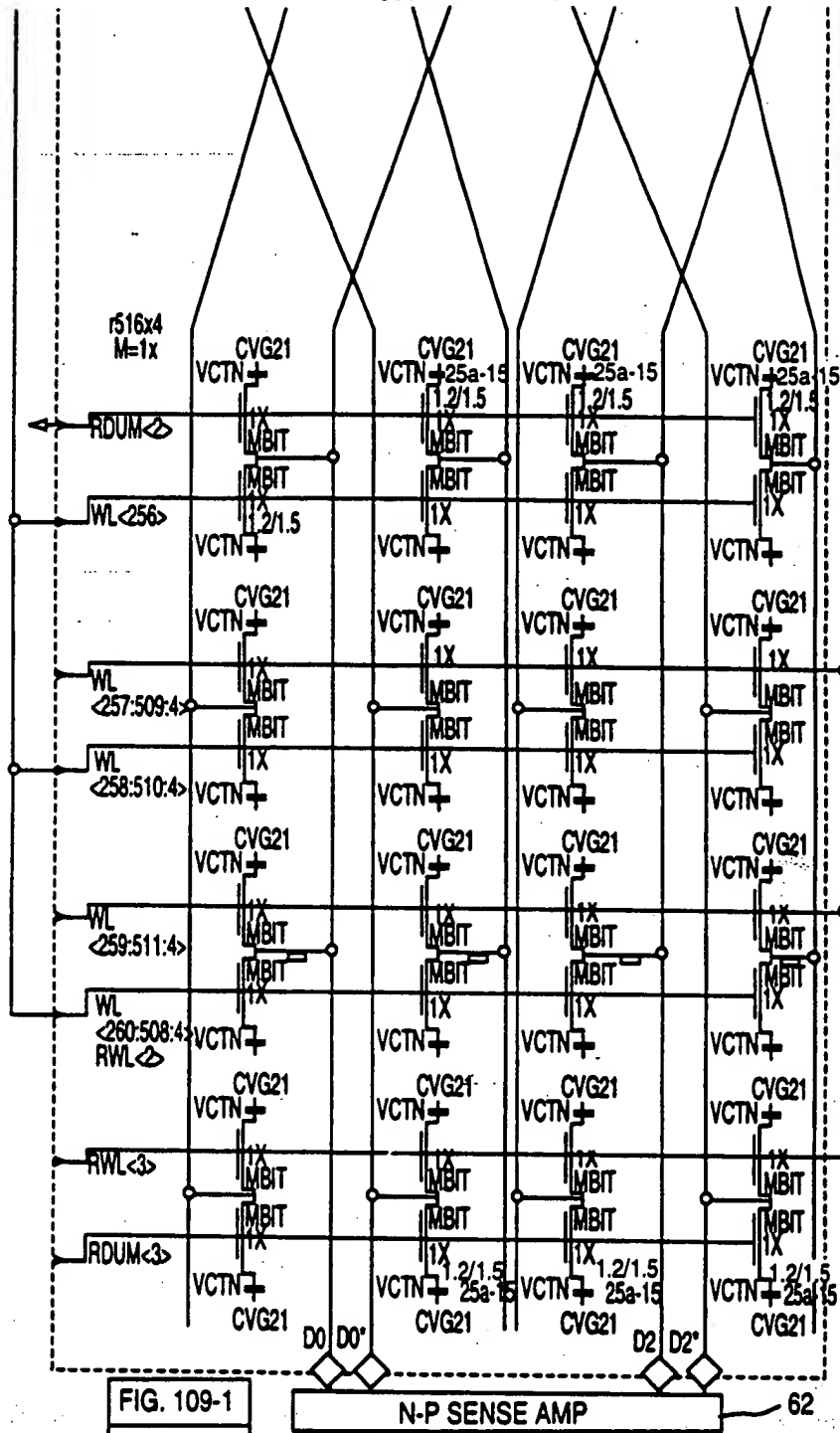


FIG. 109-1
FIG. 109-2

FIG. 109-2

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100290/21258860

Shrink Factor = 0.24
Mbit = 2.5 x 5.4 um (drawn)
0.600um Column Pitch
0.648 um Row Pitch

63.5um Scribe
24.0um Clal Strip
87.5um Edge

14.999 mm w/scribe
590.53 mls w/scribe

1776um

520 total
Wordlines
Pitch=
0.648um

Twist
(6.144 um)

PN Sense
Amps
(44.68um)

87.5um

87.5um

1024 Actual Datalines
Dyname Pitch=0.600um

240um

120um
24.677 mm w/scribe
971.55 mls w/scribe

FIG. 110

240um

Row Decode (93.12 um)
Edge Row Decode (94.72 um)
63.5um Scribe
24.0um Clal Strip
87.5um Edge

100290/21258860

002901725860

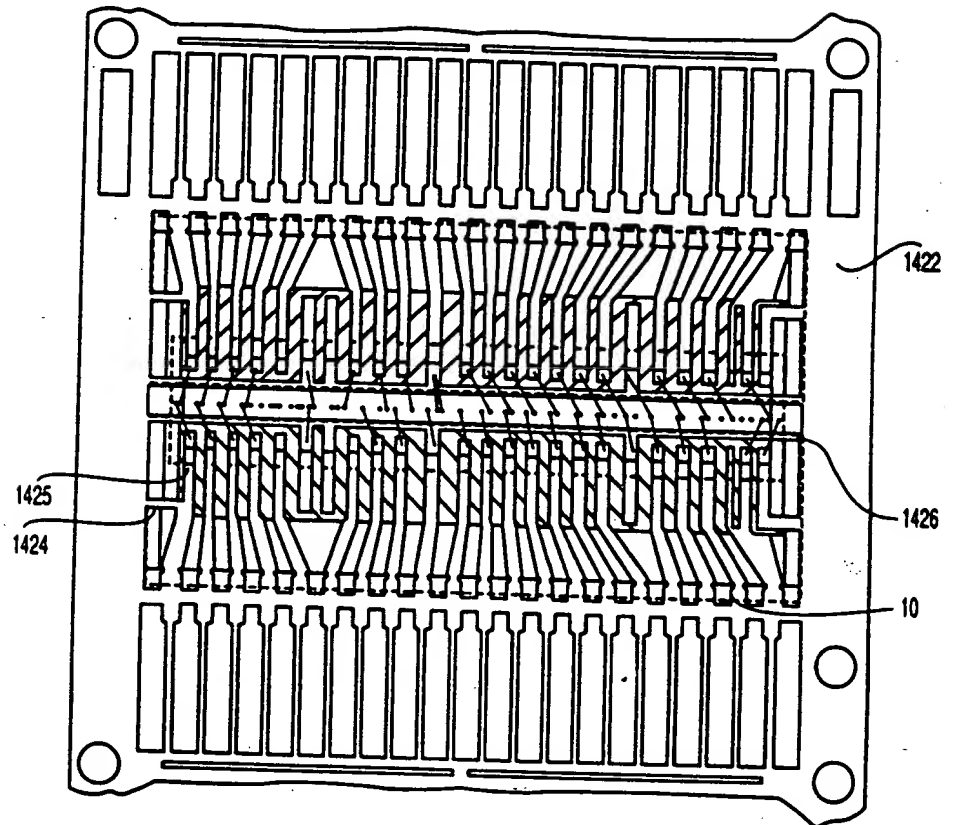


FIG. 111

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09885217062004

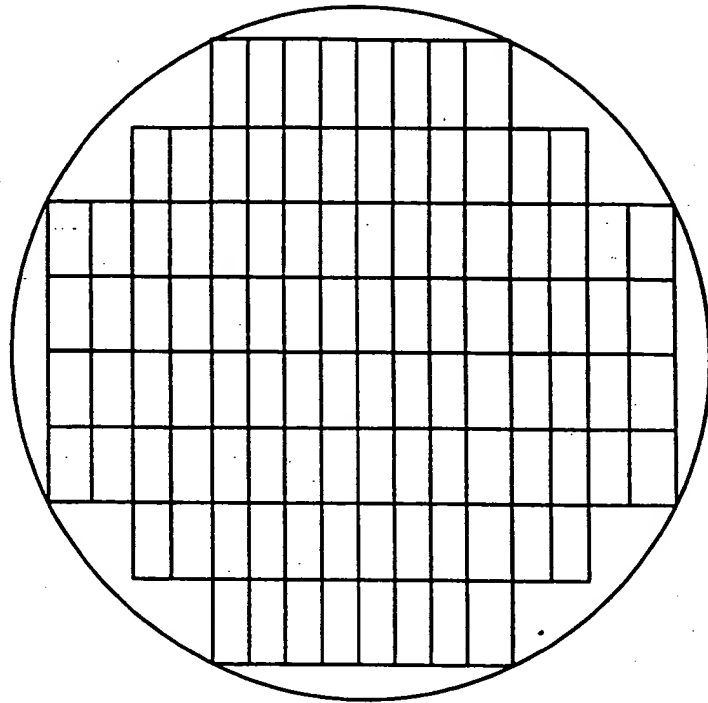


FIG. 112

09885217-062001

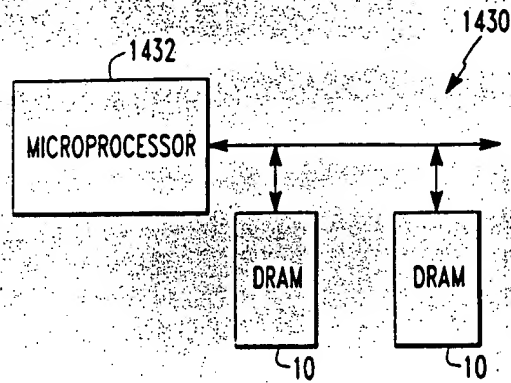


FIG. 113

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